

Taku Koyahata

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PROFILE

senior software developer, solution architect specializing in database / embedded / web / visual processing / mobile applications.

EXPERIENCE

Apr 2022 - Aug 2022	Nihon System Consultant	Senior System Engineer	Hokkaido, Japan
<ul style="list-style-type: none">• Development of web based self service software used by university students, staff, and faculty for course registration, certificate request, etc.• Java, JSP, Eclipse, PostgreSQL• unit testing and implementation			
May 2019 - Mar 2022	Fujisoft Incorporated	Senior System Engineer	Hokkaido, Japan
<ul style="list-style-type: none">• Development of control panel software for Mori Seiki Machine tools.• Used by operators for managing iron bar processing for bolt manufacturing, and changing tooling.• Design, unit testing, integration testing, and implementation.• C++, embedded Windows, and Visual Studio			
Mar 2017 - Jan 2019	Social Capital Designs Co., Ltd.	Senior System Engineer	Hokkaido, Japan
<p>Developed public infrastructure inspection software.</p> <p>①Development of Drone control software to be used for bridge inspection under GPS inaccessible environment.</p> <ul style="list-style-type: none">• C++, Raspberry Pi, DJI Matrice600, DJI Onboard SDK, DJI Mobile SDK, android application(Java)• RPLidar A2(2D lidar sensor), Lidar-Lite v3(1D distance sensor), supersonic distance sensor(IWS520-USB)			

<p>②Development of software to assist in measuring cracks in concrete wall images.</p> <ul style="list-style-type: none"> • OpenCV, Dot Net framework, C# 			
<p>③SNS service</p> <ul style="list-style-type: none"> • development an alpha version of SNS service that allows users to create, post, and view their walking routes • Users edit their walking plans on their mobile phones(iPhone, Android), and share by submit to PHP server. • Augmented Reality: Shows a geometrically-accurately placed destination points on the actual camera image in real time. • PHP, MySQL, Google Map API, android app (java), iPhone app (XCode, Swift) 			
<p>④Mobile application for river survey</p> <ul style="list-style-type: none"> • Android map application used to create river survey reports • User takes photos of rivers and edits the survey reports by using this app • User can downloads map images in advance, so that they can use it under the no network environment • android app (Java), Android Studio, JavaScript, leaflet.js 			
<p>⑤Application surveying concrete walls crack length</p> <ul style="list-style-type: none"> • A program that detects the length of a chalk line drawn along with cracks on a walls. • C#, Visual Studio, OpenCV • external design, internal design, implementation, testing 			
Mar 2017 - May 2017	Media Pro Inc.	Senior Software Engineer	Hokkaido, Japan
<p>①Livestock health checkups web system</p> <ul style="list-style-type: none"> • implementation, unit test • PHP, smarty, jQuery, Oracle, NetBeans 			
<p>②shop stock recognition system</p> <ul style="list-style-type: none"> • Detects stock with image processing of shelves photo(OpenCV) • developed Web UI part(Angular.js, fabric.js) • internal design, implement, unit testing • Javascript, Angular.js, fabric.js, MySQL, Ubuntu(Linux) 			
Jun 2016 - Feb 2017	Do-Gen Co.,Ltd.	Senior Software Engineer	Hokkaido, Japan

<ul style="list-style-type: none"> • replacing the existing sales management system from Excel to MySQL server. • this software manages orders, inventory, and purchases for the electric light distributor(Do-Gen Co.,Ltd.). • Microsoft Excel VBA, MS-ACCESS, MySQL, Fedora(Linux) 			
May 2016 - June 2016	SAJCO Corporation	Senior Software Engineer	Hokkaido, Japan
<ul style="list-style-type: none"> • server setup, existing application re-configuration • Road repair status management software • ASP(not ASP.net), IIS, Windows Server 2003 			
Jan 2014 - Apr 2016	IK Systems Co., Ltd.	Senior Software Engineer	Hokkaido, Japan
<p>①Co-op warehouse management system</p> <ul style="list-style-type: none"> • implementation, unit testing • PHP, JavaScript(JQuery, Ajax), Eclipse, SQL server <p>②cleaning company sales management system</p> <ul style="list-style-type: none"> • Adding functions • implementation, unit testing • VB.net, Active Report, SQL server <p>③agricultural sales management system</p> <ul style="list-style-type: none"> • Add new features • Internal design, implementation, testing • VB.net, SQL Server <p>③picking system controller control software</p> <ul style="list-style-type: none"> • abstract: picking staff read customer barcode, the lights of the stock shelves having ordered products are on , staff picks the products, packs and sends it to customer • Fix the existing bugs • implementation, testing • VB.net, Visual Studio 2010, Oracle <p>④bank attendance management web system</p> <ul style="list-style-type: none"> • abstract : bank staffs login to this web system when they attend to work, log out when they leave out. Company use this log to calc their wages. considered while calculation: basic attendance schedule, special allowance for overtime and late-night work 			

<ul style="list-style-type: none"> • Fix bugs and add new features. • a member of the two-member-team • internal design, implementation, testing • ASP.net, CSS, Visual Studio 2010, ComponentOne(middleware), SQL Server <p>⑤ CMS site of the organization of certificate of accreditation of disposal of belongings</p> <ul style="list-style-type: none"> • add new features, backup, and update Joomla • Joomla, PHP • implementation, testing <p>⑥ AutoCad dll</p> <ul style="list-style-type: none"> • development of dll for AutoDesck AutoCad. • internal design, implementation, testing • VB.net, Visual Studio 2012 • a member of the three-member-team <p>⑦ the system which manages the contents of school repairs</p> <ul style="list-style-type: none"> • a member of two-member-team • implementation, unit testing • PHP, MySQL, Microsoft Excel 			
Jul 2014 - Aug 2014	IKEUCHI VENEER CO., LTD.	Senior Software Engineer	Hokkaido, Japan
<ul style="list-style-type: none"> • implement Yahoo Shop APIs and Rakuten Store APIs into existing sales management EXCEL book • I had to develop .Net base dll because Excel VBA cannot deal with client certificate. • external design, internal design, implementation, testing • Excel VBA, VB.net, Ajax, Visual Studio, Yahoo Store API, Rakuten shop API, OAuth 			
Apr 2004 - Jul 2014	Medical Corporation Shinsankenkai	In-hospital full stack system engineer	Hokkaido, Japan
<ul style="list-style-type: none"> • Mainly developed the health check-ups database system used in the hospital • Number of employees of the hospital were about fifty at first time, then increased. • PC setup, application install, network setup, and all other system-related works, too. • MS-ACCESS, Microsoft EXCEL VBA, PHP 			
Aug 2003 - Oct 2003	WEB HOKKAIDO Co., Ltd.	Software Engineer	Hokkaido, Japan
Development of web system that manages the progress of construction by uploading			

photos taken at the construction site • a member of two-member-team • internal design, implementation, testing • PHP			
July 2003	NTT DATA HOKKAIDO Corporation	Software Engineer	Hokkaido, Japan
Excel application used in government tax offices • a member of five-member-team • implementation, unit testing • Excel VBA			
Apr 2003 - Jun 2003	DATT JAPAN Inc.	Software Engineer	Hokkaido, Japan
Development of bundled software for IC recorders. Software that joins, divides, and rearranges audio data (ASF) saved by a recorder on a PC. ASF is operated via Microsoft's SDK. • a member of two-member-team • internal design, implementation, testing • C++ , Visual Studio, MFC			
Jan 2003 - Mar 2003	Hokkaido NEC Software Inc.	Software Engineer	Hokkaido, Japan
Development of mobile phone browser • a member of 5-member-team • internal design, implementation • C language, CVS			
Dec 2002	Advanced Technology & Planning Co.,LTD.	Software Engineer	Hokkaido, Japan
Japan self-defense forces item management database system • testing • MS-ACCESS			

February 2002 - November 2002

Software Engineer, Media Pro Inc.

①DB application used by the police

- implementation, unit testing
- Visual Basic 6, Oracle, PL/SQL, Crystal Report

②Character movement program of 3D chat system

- implementation, unit testing
- need knowledge of linear algebra
- C++, Visual Studio

③development of expired gas cylinder detection system

- abstract: gas cylinder inspector download expired gas cylinder lists from DB into the barcode reader in advance, check the expiration with touch gas cylinders with the barcode reader
- I had to implement binary search because barcode reader is too slow to linear search.
- internal design, implementation, testing
- MS-ACCESS(VBA),C(language) for barcode reader firmware

September 2001-October 2001

Part time software developer, Interglobe Co., Ltd.

development of DLL for SVG(Format of vector image)

- need knowledge of linear algebra
- internal design, implementation, unit testing

July 2000 - July2001

Software Engineer , B.U.G. CO., LTD.

switch board Firmware development

- internal design, implementation, unit testing
- C(language), home brew kernel, Motorola MPC860, Real Time Operating System(RTOS)

Other Experiences(mainly hobby and my own research)

①maintenance and setup of my own server (koyahatataku.com)

- my own site (<http://www2.koyahatataku.com/>) and mail(koyahata@koyahatataku.com)
- MySQL, Wordpress, dovecot, postfix, PHP, SSH, CentOS(Linux), etc.

②development of chess clock

<http://www2.koyahatataku.com/koyahatasoft/chessclockkit/>

- full stack(design of printed circuit board, choice of microcomputer, choice of LCD, development of software, hardware, importing devices from china, order PCB to china,

all)

- PIC microcomputer, C(language), Microchip MPLAB

③development of puzzle solvers(Sudoku, Number Area, Rush hour, Pentomino)

http://www2.koyahatataku.com/sapporo_chess/prolog.html

- breadth first search, depth first search
- Prolog(language)

④development of morphing movie maker

making morphing movie from two still images and corresponding point information.

research at university

- needs linear algebra, image processing knowledge
- Macintosh, QuickTime, Think C

EDUCATION

Muroran Institute of Technology - Bachelor of Computer Science 2000 (Research of Image Processing)

CERTIFICATIONS

- Second Class Information Processing engineer
- Level 2 of the English Language Proficiency Test
- 2nd grade of the mathematics certification exam
- amateur radio 1st class(Similar to FCC license in America)

Languages

Japanese-Native

English- Intermediate