

MAX JUCHHEIM

Software Developer

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Skills

Languages

Python, Golang, Ruby, JavaScript, Typescript, HTML5, CSS, R

Databases

SQL, (MySQL, PostgreSQL), NoSQL (DynamoDB, MongoDB)

Frameworks and Libraries

Django, Echo, GORM, Ruby on Rails, Docker, jQuery, Mongoose, Jupyter, Numpy, Pandas, Bootstrap, Handlebars, Ember.js, AngularJS, Node.js, Express, SCSS/SASS

Other

Intermediate proficiency in Japanese language

Tools and Technologies

Google Cloud Platforms (Firebase, Firestore, App Engine, Artifact Registry), Amazon Web Services (S3, ECS, SQS, CloudWatch), Swagger/OpenAPI, CLI, JSON, XML, gRPC, AJAX, Git/Github, Slack, Notion, Asana, Atlassian Suite, MSOffice

Work Experience

LEAD SOFTWARE DEVELOPER (BACK-END) – Ambi, Inc., Tokyo/Kita-Hiroshima, Hokkaido, Japan, August 2021 – Present
Tech stack: Back-end – Golang, Echo Framework, GORM; Databases – MySQL, DynamoDB, Google Firestore; version control – GitHub

- Lead team of engineers in development of user-facing commercial mobile application NeruBank enabling users to record and track the quality of their sleep and to earn points redeemable for rewards within the application
- Built back-end server architecture and REST API to support required features of the application
- Integrated a link to Japan's national Personal Health Record (PHR) system, allowing users to review their medical information and history in-app after authentication with the My Number MynaPortal system
- Built separate LINE app version of the application for use in special project for city of Kita-Hiroshima, Hokkaido
- Performed database administration and maintenance for production-scale application user data
- Frequently liaised with business and product teams to align on feasibility and prioritization of planned features
- Numerous additional functions throughout the company including strategic planning and business and community outreach

APPLICATIONS DEVELOPER, SENIOR APPLICATIONS DEVELOPER – InterSystems, Corp., July 2018 – July 2021
Tech stack: Back-end – Caché ObjectScript; Database – Caché SQL; Front-end – Javascript, AngularJS; version control – Perforce

- Worked full time a software developer for TrakCare, an electronic medical record software for healthcare providers
- Served as lead developer on key projects such as a new unified record of patient care events, a system to track the continuity of patient care between such events, and a clinical timeline for viewing all relevant patient data chronologically
- Developed back-end business logic using Caché ObjectScript with an SQL database as well as two front-end user interfaces (a web-based interface and a newer responsive, mobile-enabled interface built on AngularJS)
- Worked in an agile/scrum team-based environment with regular input/feedback from project stakeholders
- Actively participated in onboarding, code review, and training/mentorship of incoming new developers

WEB DEVELOPER IN TRAINING – General Assembly Boston, Jan 2018 – April 2018

- Completed 12-week, 600+ hour intensive web development training course, including 4 full-stack web application projects

SCIENTIST I, II, & SENIOR SCIENTIST, PRODUCT LEAD – Addgene, Inc., July 2012 – Jan 2018

- Worked full time as a molecular biologist performing DNA sequence analysis and vector quality control
- Proactively studied the Python language in order to interact with and improve the company's Python/Django-based LIMS
- Wrote code comprising more than twenty individual pull requests that were successfully deployed in the LIMS codebase

Education

MS (PHD-ABD), BIOLOGICAL AND BIOMEDICAL SCIENCES - Harvard Medical School, Division of Medical Sciences

- Studied MAP kinase signaling in colorectal cancer in transgenic mouse models and human colorectal cancer cell lines

BS, BIOLOGY, MINORS IN CHEMISTRY AND BIOMEDICAL ENGINEERING - Massachusetts Institute of Technology

- Participated in part-time undergraduate research program in yeast genetics studying protein folding, sorting, and trafficking

Additionally, attained verified certificate of completion in various courses on the edX.org online learning platform, including:

Introduction to Computer Science and Programming Using Python
Introduction to Computational Thinking and Data Science
The Beauty and Joy of Computing – AP® CS Principles Part 1

Introduction to Python for Data Science
Statistics and R
How to Code: Systematic Program Design – Part 1