

Arda Karaduman

Full-Stack Developer | AI Enthusiast

Chofu, Tokyo

Email: me@arda.karaduman.web.tr

<http://arda.karaduman.web.tr>: arda.karaduman.web.tr

About Me

A Pragmatic Programmer living In Japan since 2004. I like programming, tinkering, hacking. Checking new languages, frameworks, trying new ideas.

Spoken languages:

Turkish (Native), English (Near Native), Japanese (Business)

Work Experience

Systems Architect

Veltra (Tokyo, Remote)

January 2024 - Present

- General application and infrastructure architecture and planning
- Migration from monolithic PHP app to microservices architecture
- Develop and encourage policies for Logging, Security, Authentication/Authorization, Code Coverage, Linting
- Perform as bridge engineer between Overseas teams

Senior Developer

Gaussy (Tokyo, Remote)

February 2020 - December 2023

- Back-end development for Warex project (Golang)
- Manage backend development using Gorm, Echo, MySQL
- 3rd party service integration with Hubspot, Mailgun, Bugsnag
- Integration with Goose Migrations and Testify Suite
- Some frontend development using Vue js (Admin site)
- Ruby on Rails, React development

Senior Developer

Robotfund (Tokyo, Hybrid)

March 2018 - February 2020

- Fullstack development of LINE fund information platform '0E0ü0"0ó'
- API development (Ruby on Rails)
- LINE API integration (Integrate with LINE Chat API)
- Reuters API integration (Daily fetching and processing of fund related data)
- Fullstack development of fund information platform Better World
- Backend/Frontend development using Ruby on rails
- Reuters API integration
- Custom Golang service which compresses and caches audio
- Integrate with text-to-voice service
- Convert customer response to voice and cache so that text-to-voice service isnt used frequently
- Developed using Go, deployed using docker/AWS

Senior Development Engineer

Allm Inc (Tokyo, Onsite)

December 2014 - March 2018

- API / Backend development for content sharing and publishing platform (e.g., Kidint)
- API development using Ruby On Rails
- AWS Integration (S3 assets, SNS notifications)
- Front End Development using Angular

- Social Media Integration and 3rd party login (Facebook, Google)
- Wifi based customer tracking platform for retail BI application (Followup)
- Standalone service development for IoT and peripherals (Go lang service on Raspberry Pi, BLE beacon integration)
- IoT massive deployment & peripheral management
- API development in Go
- API development for triage application JoinTriage
- API development using Grape (Ruby)
- Front End development (Angular 1.x and Bootstrap)
- CI & CD (GitlabCI & Docker)
- AI Research for Healthcare
- Image classification & recognition using deep neural networks
- Data analysis and segmentation using machine learning

Developer

Aiming Inc (Tokyo, Onsite, Contract)

June 2014 - November 2014

- API backend development for MMORPG 'Rc0h>TIÖ0n0í0°0i01'
- API development using Padrino framework (Ruby)
- Participating in an Agile development environment with tight deadlines
- Experience developing for a game with thousands of daily active users

Dev Ops

Kii Inc (Tokyo, Onsite)

August 2012 - May 2014

- API usage tracking and logging (3scale, Varnish-Cache, fluentd)
- Payment Integration (via Zuora and Paypal)
- Cloud Code maintenance (node.js)
- Developer Portal development (Ruby on Rails, Backbone.js)
- Various automated tasks (reports, AWS resource tuning in Ruby/Bash with puppet)

Dev Ops

Mobilous Inc (Tokyo, Onsite)

August 2011 - July 2012

- Lead DevOps/CloudOps: Design and implement scalable EC2 cloud infrastructure with monitoring and auto-scaling. Admin dashboard integration with RoR.
- Minor participation in Glassfish AppServer component (Java on Spring framework)
- Web page automation script with PHP/Selenium

Contract Developer

Ryde Inc (Tokyo, Remote - Part Time)

July 2021 - July 2022

- Backend development for Ryde services (Mobile and Web) using Ruby on Rails, GraphQL
- Some frontend development (Admin site, Ruby on Rails, React)

Contract Developer

Iron.io (US, Remote - Part Time)

July 2017 - July 2020

- Support and maintenance of Open Source serverless platform, Iron Functions

Education

Master of Science

Keio University

2006 - 2008

Obtained the Master's degree in Computer Science. Studied for Ph.D. between 2008-2011. Research Area: Embedded Processor Design and Optimization.

Selected Papers:

- 2011: Cache Implementation for Echo Instructions on an Embedded Processor (IPSJ Transactions on System LSI Design Methodology(TSLDM7))
- 2009: Code Compression with Split Echo Instructions (IEICE Transactions on Information and Systems)
- 2009: Design and Implementation of Echo Instructions for Embedded Processors (Embedded World)

Conference, Nuremberg Germany, 2009)

Bachelor of Science

Istanbul Bilgi University

2000 - 2004

Skills

Technical Skills

- Mainly proficient in Ruby and Go
- Debian & Emacs user. Very comfortable in unix environments and writing bash scripts
- Extensive knowledge of AWS resources. Hands on experience with EC2, S3, Dynamo, SES, IAM, Route53
- Early adopter of Continuous Integration and Continuous Deployment
- Experience with TDD, BDD, Agile and GitHub driven development
- Front End development experience with React, Vue. Some Node.js experience
- Vibe coding skills, can get lots of work done in short time. Always cautious though.
- Functional programming background
- Experience writing Legacy languages such as, Java, C, PHP
- Experience in designing and implementing Restful and GraphQL APIs for both Web and Mobile

Projects

Warex (Backend Development)

Golang, Gorm, Echo, MySQL, Hubspot, Mailgun, Bugsnag, Goose Migrations, Testify Suite

Backend development for the Warex project while at Gaussy.

LINE Fund Information Platform '0È0ü0`0ó'

Ruby on Rails, LINE API, Reuters API

Fullstack development of a fund information platform integrated with LINE, including API development and data fetching/processing from Reuters, at Robotfund.

Fund Information Platform 'Better World'

Ruby on Rails, Reuters API

Fullstack development of a fund information platform with Reuters API integration, at Robotfund.

Custom Audio Caching Service

Golang, Docker, AWS, Text-to-Voice Service Integration

Developed a Go-based service to compress, cache, and serve audio generated from text-to-voice, reducing API usage, at Robotfund.

Content Sharing and Publishing Platform (e.g., Kidint)

Ruby On Rails, AWS (S3, SNS), Angular, Facebook API, Google API

API and backend development for a content sharing platform, including AWS integration and social media logins, at Allm Inc.

Retail BI Customer Tracking Platform (Followup)

Go, Raspberry Pi, BLE Beacons

Developed a WiFi-based customer tracking platform for retail business intelligence, including IoT service development on Raspberry Pi and BLE beacon integration, at Allm Inc.

Triage Application 'JoinTriage' (API)

Grape (Ruby), Angular 1.x, Bootstrap, GitlabCI, Docker

API and frontend development for a triage application, including CI/CD setup, at Allm Inc.

AI Research for Healthcare

Deep Neural Networks, Machine Learning

Conducted AI research involving image classification/recognition and data analysis/segmentation for healthcare applications, at Allm Inc.

MMORPG API Backend 'Rc0h>TIÖ0n0í0°0i0'

Padrino (Ruby)

Developed the API backend for a popular mobile MMORPG, at Aiming Inc.

Kii Cloud Developer Portal

Ruby on Rails, Backbone.js

Development of the developer portal for Kii Cloud, at Kii Inc.

Iron Functions (Open Source Serverless Platform)

Go (implied, as it's a serverless platform often built with Go)

Provided support and maintenance for the Iron Functions open-source serverless platform, at Iron.io.

Portfolio Website (This Project)

React, TypeScript, Vite, Tailwind CSS, Node.js, PDFKit

A multilingual, SSR-enabled portfolio website with dynamic PDF resume generation.

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