

# Arda Karaduman

Full-Stack Developer | AI Enthusiast

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## 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
- Refactored notification service from monolithic PHP app to a standalone Python service for easier maintenance
- Migrate from a paid CDN solution to self developed CDN service which serves S3 assets to reduce costs (nodejs)
- 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

- Development for warehouse management 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)

### **Senior Developer**

Robotfund (Tokyo, Hybrid)

March 2018 - February 2020

- Fullstack development of LINE fund information platform '0È0ü0`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°0ì0'
- 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. Recently adding Python to the mix.
- 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.