James **Dominguez**

FULLSTACK ENGINEER · ENTREPRENEUR

Seattle, WA

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Summary

Senior engineer with a decade of experience building startups. Deep understanding of the entire stack and familiarity with many modern architectures and technologies. Excels at data driven product development, with an AI/ML focus.

Skills

DevOps	Kubernetes/K8s, AWS, Docker, Terraform, Pulumi, Linux
Back-end	Node.js, Express, Golang http, PostgreSQL, GraohQL
Front-end	Redux, React, React Native, Svelte, ClojureScript, Electron
AI/ML	PyTorch, Hugging Face Transformers, GPT-Neo
Languages	Python, TypeScript, Golang, Rust, Lisp
Tools	Vim, Tmux, Awk

Work Experience

Pegasys Medical / Fortive   *Seattle, WA*
MOBILE IMAGING / REACT NATIVE CONSULTANT   *September 2022 - February 2024*

- Designed and implemented a React Native application used for capturing images of surgical instruments in the OR after an operation is completed.
- Worked with stakeholders directly to gather requirements and prototype new features for the mobile application on a weekly basis, giving regular demos and updates directly to tier 1 stakeholders.
- Worked with backend consultants to fix platform-wide bugs that resulted in immediate cost savings and more uptime.
- Built a robust image upload queue for sychronizing image metadata and image files across seperate data stores.
- Participated in modernizing the entire frontend codebase into a monorepo managed by NX–pulling all of our React/React Native applictions under one repository.
- Built tooling for developers to be able to run all our microservices locally with a single command via docker compose.
- Created a cost savings calculator for customer discovery and wired it up to a datastore to save user input.
- Wore many hats and helped take the company from "struggling to survive" to "growing out of control!"

Dolly   *Seattle, WA*
FULL STACK CONSULTANT   *November 2021 - August 2022*

- Worked with internal engineers to identify and solve bugs related to Dolly's self service job assignment system that assigns delivery jobs to drivers.
- Participated in a company wide effort to re-write much of the backend stack as modern Node.js APIs. Completed several services and delivered them with documentation and tests.
- Paired with senior engineers at Dolly to triage long-standing issues with the payout algorithm that dictates how much a given job pays out. Worked directly with stakeholders to tease out the nitty-gritty details around pricing, and then translated those details into a robust algorithm that will stand the test of time.
- Trained new hires on how to navigate the various different services and how to triage bugs that spanned across multiple products. Gave Node.js training to new hires.

AI2 Incubator   *Seattle, WA*
ENTREPRENEUR IN RESIDENCE & AI BUILDER   *December 2020 - August 2021*

- Designed the data architecture for the Callout.ai video chat Node.js application, with a RESTful API allowing users to save and update meeting artifacts tied to specific moments in the meeting.
- Built a robust front end application in React which allowed timeline aware annotation of meetings during video calls, as well as after them (full CRUD).
- Integrated with Google Docs API to create meeting summaries using NLP topic modeling.
- Implemented several API microservices in Node.js. to handle tasks like transcription and live chat over Websockets during meetings.
- Utilized Pulumi to write infrastructure as code and deploy our services to AWS EC2 clusters for development, testing, and production.
- Developed a computer vision AI model to detect laughter in real time during video calls.

Moz Inc.
SR. SOFTWARE ENGINEER
- Built a service in Golang for triaging 3rd party customer data errors–utilized the JIRA API to create and update tickets automatically as issues were solved by the customer success team. This automated system replaced an entire team of 5 human workers.
- Built a zip code specific local search optimization tool on top of Postgres with GIS plugins. Built out APIs for this tool in Node.js. Worked on the frontend in React. Utilized Terraform to deploy the entire application to AWS EC2 clusters.
- Was responsible for the local search organization as a core member. Included on-call rotation work and delivering new features to customers via Node.js/React applications owned by the team.
- Participated in a company wide initiative to rewrite all microservices in Terraform and deploy them to AWS EC2 containers. Required rewriting and containerizing Ruby, JavaScript, CoffeeScript, Elixir, and Python services.

RumbleMonkey
Seattle, WA
SOFTWARE ENGINEER, SECURITY EXPERT, UX LEAD
January 2017 - May 2018
- Transformed an existing desktop prototype written in Qt into a modern Electron application with an auditable, secure log of events that could be verified by the server in real time as interactions between two separate clients occured.
- Built a Golang service & API facilitating a real time betting system for the trading card game Hearthstone.
- Developed a blockchain implementation which tracked user actions and tokens in the system, allowing secure real-money transactions between users.
- Interacted directly with customers to discover pain points in the software and solve them quickly and efficiently.
- Created a FFA multiplayer game in Unity3D, working directly with a game designer. Required hand coding all player interactions, game rules, and effects.

Rooster Park / Godaddy
Kirkland, WA
SOFTWARE ENGINEERING & CONSULTANT
February 2015 - December 2016
- Built Ember.js applications that replaced legacy account management UIs with mobile first SPAs.
- Designed and built Node.js proxy APIs that transformed legacy DB data from mySQL and made it available for consumption by product teams.
- Contributed to and maintained an internal library of React components which were used across the company to implement user facing UIs.
- Mentored junior developers and interns; acted as a code review gatekeeper & SCRUM master.

Smashing Boxes
Durham, NC / Remote
SOFTWARE ENGINEER & SHORT TERM CONTRACTOR
July 2014 - January 2015
- Implemented Ruby APIs exposing ImageMagick functionality and job processing to front end applications.
- Wrote AngularJS frontend applications for the firm's top clients.
- Integrated with 3rd party payment gateways using JavaScript SDKs.
- Built internal tooling for server orchestration and deployment in Ruby.
- Consolidated Chef cookbooks and developed a CLI for deploying new services and running cookbooks on multiple servers at once.

PugetWorks / Blue Nile
Seattle, WA
SOFTWARE ENGINEER & CONSULTANT
April 2013 - June 2014
- Wrote ClojureScript in-browser text editor leveraging the Google Closure Compiler for a startup client.
- Worked at Blue Nile as a Java & JavaScript consultant in an effort to rewrite the infinite scroll UI & product search endpoints.
- Implemented a handlebars-like templating language in Java so that non-technical staff could update content on the Blue Nile website.
- Worked on a PostgreSQL / PostGIS & Python service to store and quickly look up millions of data points over multiple shards for a startup client.

Intercon Logistics Management
Seattle, WA
RUBY/RAILS ENGINEER
January 2012 - April 2013
- Built out Ruby APIs for all endpoints needed in the application.
- Wrote and maintained drivers for a magnetic card reader in C++.
- Worked closely with PugetWorks designers to build a JavaScript UI for the Ruby backend.
- Built an automated hotel check-in system for corporations with frequently traveling employees.

Education

Northwest University
Kirkland, WA
B.S. IN ENGLISH (FOCUS ON SHAKESPEARE)
September 2007 - July 2011
- Dean's list student.
- Recieved a scholarship for BP debate and competed at the national level on the debate team.
- Tutored students at the NU writing center.