# James **Dominguez**

ENGINEER & SCIENTIST

*Seattle, WA*

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*"In algorithms, as in life, persistence usually pays off." — Steven S. Skiena*

## Summary

Professional focus on AI, writing mainly Python and Golang. Skilled LLM engineer and AI builder–proficient with structured outputs and fine tuning. Comfortable in Terraform and AWS. Deep understanding of the entire stack with a working knowledge of many modern architectures and technologies. Strong written and oral english. Adept at solo or group work; comfortable quickly learning new frameworks and codebases.

## Skills

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|---|---|
| **AI/ML** | NumPy, PyTorch, Pydantic, Instructor, OpenAI/ChatGPT, Marvin, Hugging Face |
| **Languages** | Python, Golang, JavaScript/TypeScript, Ruby, Lisp, Racket |
| **Backend** | Python, Golang, Node.js, PostgreSQL, GraphQL |
| **Frontend** | React, React Native, Redux, Svelte |
| **Tools** | Vim, Tmux, Awk, Jupyter/Google Colab, LLMs |
| **DevOps** | Kubernetes/K8s, AWS, Docker, Terraform, Pulumi, Linux |

## Work Experience

### Pegasys Medical / Fortive
*Fully Remote / Seattle, WA*

SENIOR ENGINEER — *September 2022 - March 2024*

- Worked with stakeholders to gather requirements and prototype new features
- Modernized the frontend codebase into a monorepo managed by NX–pulling all of our React/React Native applictions under one repository
- Built a robust image upload queue for sychronizing image metadata and image files across seperate data stores
- Planned and implemented Golang microservices for auth, file uploading, image metadata, logging
- Built docker compose tooling for developers
- 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
*Fully Remote / Seattle, WA*

SENIOR ENGINEER — *November 2021 - August 2022*

- Fixed mobile application bugs related to outdated APIs and undocumented code
- Fixed many old, outdated Golang microservices
- Re-wrote all mono services as Node.js APIs
- Paired with senior engineers at Dolly to triage long-standing issues with the 'black box' payout algorithm
- Trained new hires on how to navigate the dolly microservices and how to triage bugs that spanned across multiple products

### 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
- 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 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.
*Seattle, WA*

SR. SOFTWARE ENGINEER (DATA TEAM) — *May 2018 - December 2020*

- 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
- Built a zip code specific local search optimization tool on top of Postgres with GIS plugins (React, Golang, postGIS all done together)
- Was responsible for the local search organization as a core member delivering and supporting features directly
- Participated in a company wide initiative to rewrite all microservices in Terraform and deploy them to AWS EC2 containers

### RumbleMonkey

FOUNDING SOFTWARE ENGINEER *January 2017 - May 2018*

- Created a FFA multiplayer game in Unity3D, working directly with a game designer. Required hand coding all player interactions, game rules, and effects
- Developed a blockchain implementation which tracked user actions and tokens in the system, allowing secure real-money transactions between users
- Went to PAX East, discovered and developed customers
- 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
- Interacted directly with customers to discover pain points in the software and solve them quickly and efficiently

### Godaddy

*Kirkland, WA*

SOFTWARE ENGINEER *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 *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 *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*

SOFTWARE 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. ENGLISH *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