

# Martin Smith

## Full-Stack Software Engineer

San Francisco, CA | 1+(415) 371-9027 | [mcodesmith@gmail.com](mailto:mcodesmith@gmail.com)

Github: [Hraesvel](#) | LinkedIn: [Rustyboy](#) | Website: [msmith.online](#)

## SKILLS

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- **Languages:** Rust, Python, C, Ruby, Javascript, BASH, HTML, CSS, PHP
- **Frameworks & Libs:** Flask, Actix, SQLAlchemy, Diesel, Rails
- **Databases:** MySQL, ArangoDB
- **Tools:** Git, Docker, Nginx, Vagrant, \*nix, Windows

## WORK EXPERIENCE

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### Crowdability, Backend/DevOps Contractor

Jan 2020 - Present

- Providing backend and DevOps support for Crowdability, an education platform for individual investors
- Updated mission critical Lambda functions to version Python 3, and provided an automated pipeline to update and transition to the new functions.

### Bulb Rocket, Software Engineer Contractor

2016-2017

- Managed a blog migration to Wordpress for Merlin News. Conducted the database migration and modified an existing theme to the clients specifications using PHP
- Conducted MySQL queries to repair text errors as a result of migrating from one database to another. Added custom fields to the database as per clients' request
- Imported existing blog articles for the Tycoon Report from a legacy CMS database into an existing Wordpress website

### CG Generalist, Contractor

2011-2017

- Worked on a series of contract jobs as a CG generalist, ranging from short films to indie game projects

## EDUCATION

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### Holberton School of Software Engineering

2018-2020

Professional certificate: Full-stack Software Development

### Gnomon School of Visual Effects

2010-2012

Professional certificate: 3D modeling and Texturing

## COURSE PROJECTS

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### Final Project: ideaDog (backend, ideadog.site)

[Link to GitHub](#)

Social platform where people can share their ideas and crowdsource feedback

- Architected & led development for backend services including APIs consumed by the frontend service
- Prototyped a backend using Rust and the Actix framework
- Designed an API where users can post ideas and upvote/downvote ideas
- Coordinated with a front-end developer to design the models/schemas
- Designed the overall database structure using a combination of NoSQL and Graphs to handle complex relationships
- Designed graph relationships between documents for Arangodb
- Tech Stack: Rust, NoSQL, ArangoDB, AWS

### Airbnb Clone: (HBNB Airbnb)

[Link to GitHub](#)

Multi-month partner project that required recreating the search and filter functionality for a Airbnb clone

- Developed REST APIs for Users, Places and Reviews following MVC Architecture
- Wrote static contents to Linux VM/NGINX web server with Python using Fabric module
- Developed a console interpreter connected to local file storage and online database (MySQL) for object creation installation and JSON serialization.
- Tech Stack: Python, Flask , JavaScript, MySQLSql, Alchemy, Docker, Nginx, Git

### Simple Shell: repo

[Link to GitHub](#)

Final project for the lower level section (C) at Holberton School; a partner project to replicate a shell

- Developed command line interpreters in C which can set up the runtime environment to run a set of simple shell commands.
- Implemented operation that processes a user's commands additionally, handles command arguments by dynamically allocating memory to store, split and tokenize user input.
- Tech Stack: C, Bash, Linux, Git

### Hackathon Project: Spade Fish

[Link to GitHub](#)

Spade Fish is a platform where Github users can see a visualization of their most used coding languages

- Architected data-models, API gateway for the front-end and backend services in Python
- Implemented Github client to request and process data to generate the metric values
- Tech Stack: Python Flask, JavaScript, Docker, Github api