

# Martin Smith Backend Engineer

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## 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

Oct 2020 - Present

Providing backend and DevOps support for Crowdability, an education platform for individual investors

### 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 & lead developer for back-end services including APIs for frontend service to consume
- Coordinated with front-end to design the models/schemas
- Design 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