

James Case Rigassio

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Github: jrigassio - StackOverflow: jamesr

EXPERIENCE

IBM, Durham, NC — Software Engineer Intern

May 2017-August 2017

- Developed an infrastructure management tool to control our organization's GitHub Enterprise using Terraform
- Refactored an IBM Kubernetes local development environment; leveraged Ansible and Vagrant to carry out tasks written in Bash, improved code efficiency, readability, and maintainability
- Developed project-specific Continuous Integration methods (Jenkins) to compile and test code, integrated with GitHub for continuous delivery
- Leveraged Terraform to manage IBM Cloud Virtual Machines
- Programmed on an IBM Power 775 Supercomputer, wrote multi-threaded jobs in Unified Parallel C

Uber, Guangzhou — Software Engineer Intern

May 2016 - July 2016

- Built full-stack (LAMP) web applications that were used to calculate statistics and visualize data for competition analysis
- Developed the front-end interfaces using JavaScript and PHP
- Implemented grouping operations that required new database tables; maintained these by writing runnable Java files and scheduling them on the backend with Linux cron jobs

EDUCATION

University of California, Berkeley Berkeley, California — Class of 2019

Major: Computer Science

Minor: Environmental Economics and Policy

Relevant Coursework:

- Structure and Interpretation of Computer Programs (CS 61A)
- Data Structures and Advanced Programming (CS 61B)
- Computer Architecture and Machine Structures (CS 61C)
- Efficient Algorithms and Intractable Problems (CS 170)
- Discrete Mathematics and Probability Theory (CS 70)
- Calculus (Mathematics 1A and 1B)
- Linear Algebra and Differential Equations (Mathematics 54)
- Foundations of Data Science (CS C8)
- Macro. Analysis (ECON 100B)
- Micro. Theory with Application to Natural Resources (EEP 100)

SKILLS

Programming languages: *Python, Go, Java, C/C++, PHP, JavaScript, SQL, Ruby, Groovy and Lisp*

Tools & Frameworks: *Git, Terraform, Ansible, Jenkins, Docker, Django and Kubernetes*

PROJECTS

BachChain:

Implemented a democratized music sharing platform built on IBM Blockchain using Go and Node.js

Educator:

Created a suite of learning-focused Amazon Alexa apps that could facilitate educational games, testing users on mental math and vocabulary

Ataxx:

Implemented a grid-based game and an AI that could play it using Minimax decision trees and alpha-beta pruning

Cal Band Computer Committee:

Built pages for the band's internal logistics web-app (using a Django framework); members use the site to sign up for performances, keep instrument inventory, vote, and more

AWARDS

Robert O. Briggs Scholarship:

Award presented annually to the most outstanding first year upper brass player in the University of California Marching Band (2015)

LANGUAGES

Fluent: English

Proficient: Spanish,
Mandarin Chinese