

James Rumsey

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EDUCATION

Duke University Durham, NC

August 2017 – May 2021
B.S. in Computer Science,
Minors in Statistical Science &
Philosophy
GPA: 3.77/4.00

SKILLS

Programming

Working Knowledge:
Java, Python, JavaScript,
HTML/CSS, Rust, Ada

Basic Knowledge:
C, Haskell, Swift, R

Tools & Frameworks

Git, AWS (Lambda, Config,
DynamoDB), Terraform, Docker,
Linux, SQL, NoSQL Databases,
Vue.js, Agile/Scrum

RELEVANT COURSEWORK

- Advanced Software Design & Implementation
- Database Systems
- Operating Systems
- Programming Language Paradigms
- Computer Architecture
- Algorithm Design and Analysis
- Data Structures & Algorithms
- Discrete Mathematics
- Machine Learning
- Intro. Mobile Programming
- Calculus I-III and Linear Algebra
- Bayesian Statistics
- Regression Analysis

WORK EXPERIENCE

Capital One – Software Engineer Intern

June 2020 – August 2020 | New York, NY (Moved to Remote)
Retail & Direct Technology, Site Reliability Engineering Core Team

- Worked on a resiliency compliance detective application that gives insights into the resiliency posture of all retail bank applications
- Created custom AWS Config rules with Terraform and wrote AWS Lambda functions with Python to evaluate applications' compliance with cloud best practices, which collectively identified 1000+ non-compliant AWS resources to be remediated
- Configured the project's CI/CD pipeline to facilitate the addition of more rules

The Coding School – Instructor

January 2021 – Present | Remote

- Provide weekly one-on-one and small group lessons to elementary through high school-age students in introductory Python, Java, and web development

Duke University Academic Resource Center – Computer Science & Statistics Peer Tutor (Head Tutor)

August 2018 – December 2020 | Durham, NC

- Conducted weekly group tutorials for Data Structures & Algorithms and Intro to Data Science courses
- Supervised a team of 10-15 tutors and met regularly with Academic Resource Center staff and course instructors to synchronize tutoring strategies based on curriculum

IBM – Software Developer Intern

May 2019 – September 2019 | Research Triangle Park, NC
Chief Information Office

- Implemented an IoT solution for monitoring occupancy of phone and conference rooms in shared workspaces at the RTP campus
- Developed front-end dashboard using Vue.js, created service layer and wrote REST API endpoints for database connection with Node.js, and deployed app to IBM Cloud

PROJECTS

Rust Webserver

April 2021 | Duke University
Implemented a multithreaded server and URL parser suitable for rendering webpages or serving as a vehicle for REST-style service, currently configured to provide users with unique fortunes.

JARChat (Encrypted Chat Client in Ada)

April 2021 | Duke University
Developed a standalone chat and file transfer client to learn the Ada programming language. Implemented multithreaded send-receive functionality and integrated with C encryption libraries.

OOGA (Object-Oriented Game Architecture) Monopoly

May 2020 | Duke University
Developed front-end and data management APIs for a data-driven board game using a MVC pattern. Used Agile workflow as part of a 4-member team (Java, JavaFX).