

JASON MAA

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EDUCATION

University of Maryland, College Park

Bachelor of Science, Computer Science

Minor: Statistics

Aug. 2018 - May 2021

GPA: 3.98/4.0

TECHNICAL SKILLS

Advanced Proficient

Python (5+ yrs), Java (5+ yrs), JavaScript (2 yrs), React.js (2 yrs)

AWS, Docker, Express.js, Spring Boot, Elasticsearch, SQL, MongoDB, C, Go, Django, R, OCaml

EXPERIENCE

Redhorse Corporation

Software Developer Intern

Jun. 2020 - Aug. 2020

- Deployed a next-generation web application for searching and interacting with the CORD-19 dataset for COVID-19 research through a knowledge graph approach as part of a team of interns.
- Responsible for developing Spring Boot microservice to interface with Elasticsearch and Neo4j graph database.
- Optimized document search, improving speed of queries by roughly 41%.

Google Summer of Code - aimacode

Student Developer

Jun. 2019 - Aug. 2019

- Designed and contributed JavaScript visualizations illustrating the Canny edge detection algorithm as part of a supplementary project for the *Artificial Intelligence: A Modern Approach* textbook.
- Built interactive demonstrations using React, allowing users to visualize edge detection via Webcam and image upload.

PROJECTS

Open Terpmatch

Personal Project

Aug. 2020 - Present

- Released an open-source web and mobile platform for University of Maryland students to anonymously match with each other.
- Integrated University of Maryland's SSO login system and MongoDB Atlas with Express.js and deployed on Heroku.
- Leveraged Twilio Verify and SendGrid to notify users via email and SMS of matches in real-time.

Kuiperbowl

Personal Project

Nov. 2018 - Present

- Developed and deployed an online competitive trivia bowl platform with about 60 monthly active users.
- Used Django and the WebSocket protocol backed with a PostgreSQL database and Redis cache and deployed with Docker Compose on Amazon ECS.

VS Code Bolt

Personal Project

Mar. 2020 - Present

- Published a VS Code language extension to highlight syntax for Firebase Bolt security rules with over 100 active installs on the Visual Studio Marketplace.

Speed Trig

Personal Project

Dec. 2019 - Present

- Released a React Native mobile application on Google Play and the iOS App Store aiming to help students improve at trigonometry.
- Worked with integrating ads using Firebase for React Native and Google AdMob.