

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

SKILLS

Languages

Python (8+ yrs), Java (5+ yrs), JavaScript (3 yrs), SQL, C, Go

Technologies

React, AWS, Docker, Firebase, Express, Spring Boot, Django, Elasticsearch, MongoDB, Neo4j

EXPERIENCE

Redhorse Corporation — Software Developer Intern

React, Spring Boot, Neo4j, Elasticsearch, Docker, AWS

Jun. 2020 - Aug. 2020

Arlington, VA

- Deployed a web application as part of a team of interns for analyzing COVID-19 research using a knowledge graph approach to interact with the CORD-19 dataset.
- Responsible for developing Spring Boot microservice to interface with Elasticsearch and Neo4j graph database.
- Improved code maintainability by applying DRY principles to reduce redundancies in backend data repositories.
- Achieved a more lightweight search, reducing application search time by 41% by splitting the search procedure to only use Elasticsearch to find and retrieve document metadata.

Google Summer of Code : aimacode — Student Developer

React

Jun. 2019 - Aug. 2019

Potomac, MD

- 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.
- Created each visualization as a separate module, ensuring visualizations to be organized and easy to maintain for the future.

PROJECTS

Open Terpmatch

Express, MongoDB, Twilio, SendGrid, Heroku

Aug. 2020 - Present

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

Kuiperbowl

Django, PostgreSQL, Redis, Docker, AWS

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 AWS.

VS Code Bolt

Firebase

Mar. 2020 - Sep. 2020

- Created a VS Code language extension to highlight syntax for Firebase Bolt security rules.
- Published on the Visual Studio Marketplace with over 180 active installs.

Speed Trig

React Native, Firebase, AdMob

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.