

# JASON MAA

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## SUMMARY

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- Skilled and highly-motivated graduate seeking a full-time position as an entry-level software developer.
- Experienced in object-oriented programming with Python and Java, full-stack web development, and databases.
- Self-driven and good communicator with a passion for problem solving.

## SKILLS

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<b>Languages</b>	Python (8+ yrs), Java (5+ yrs), JavaScript (3 yrs), SQL, C, Go
<b>Technologies</b>	React, AWS, Docker, Firebase, Express, Spring Boot, Django, Elasticsearch, MongoDB, Neo4j

## EXPERIENCE

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**Software Developer Intern — Redhorse Corporation** *Jun. 2020 - Aug. 2020*  
*React, Spring Boot, Neo4j, Elasticsearch, Docker, AWS* *Arlington, VA*

- Deployed a web application as part of a team of interns analyzing COVID-19 research using a knowledge graph approach.
- 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.

**Student Developer — Google Summer of Code : aimacode** *Jun. 2019 - Aug. 2019*  
*React* *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.
- Ensured visualizations to be organized and easy to maintain for the future by creating each as pluggable modules.

## PROJECTS

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**Open Terpmatch** *Aug. 2020 - Present*  
*Express, MongoDB, Twilio, SendGrid, Heroku* *openterpmatch.xyz*

- 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** *Nov. 2018 - Present*  
*Django, PostgreSQL, Redis, Docker, AWS* *kuiperbowl.com*

- 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** *Mar. 2020 - Sep. 2020*  
*Firebase*

- 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.

## EDUCATION

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**University of Maryland, College Park** *Aug. 2018 - May 2021*  
Bachelor of Science, Computer Science *GPA: 3.98/4.0*  
Minor: Statistics