

JASON MAA

SOFTWARE DEVELOPER

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EXPERIENCE

Amazon Web Services – Arlington, VA
SDE I

Sep 2021 – Present

Redhorse Corporation – Arlington, VA

Software Developer Intern – React, Docker, Spring Boot, Elasticsearch, Neo4j, AWS

Jun 2020 – Aug 2020

- Deployed web app for analyzing COVID-19 research documents on AWS.
- Developed Spring Boot microservice to interface with Elasticsearch and Neo4j graph database.
- Improved code maintainability by applying DRY principles to reduce redundancies in data repositories.
- Achieved a more lightweight search, reducing application search time by 41%.

Google Summer of Code, AIMAcode – Remote

Student Developer – React

Jun 2019 – Aug 2019

- Built interactive AI demonstrations in React for the *Artificial Intelligence: A Modern Approach* textbook.
- Integrated browser webcam and image upload to assist in visualizing the Canny edge detection algorithm.
- Ensured components were organized and easy to maintain by creating each as pluggable modules.

PROJECTS

Kuiperbowl

Django, WebSocket, PostgreSQL, Docker, AWS

Nov 2018 – Present

- Launched a competitive, real-time trivia bowl platform using Django, WebSockets, and PostgreSQL.
- Deployed on AWS and serving 60+ monthly active users.
- Containerized web service with Docker to ensure rapid and hassle-free deployments.

Open Terpmatch

Express, MongoDB, Twilio, SendGrid, Heroku

Aug 2020 – Present

- Launched a web and mobile service, helping University of Maryland students match with each other.
- Interfaced with University of Maryland's SSO login system, providing secure user authentication.
- Leveraged Twilio Verify and SendGrid to ensure real-time notification of matches via email and SMS.

VSCoDe Bolt

Firebase

Mar 2019 – Sep 2020

- Released a VSCode extension to highlight Bolt security rules for Firebase's Realtime Database.
- Published on Visual Studio Marketplace with 200+ active installs.
- Later acquired by VSCode's leading Bolt extension and now serving 5000+ users globally.

EDUCATION

University of Maryland, College Park – College Park, MD

May 2021

Bachelor of Science, Computer Science; Minor, Statistics; Cumulative GPA: 3.9/4.0

Summa Cum Laude

SKILLS

Languages: Python (8+ yrs), Java (5+ yrs), JavaScript (3+ yrs), SQL (3+ yrs), Go (2 yrs), C

Technologies: Node(3+ yrs) React (3+ yrs), AWS (3+ yrs), Docker (2 yrs), Firebase, Express, Spring Boot, Django, Elasticsearch, MongoDB, Neo4j

Other: Software Design, Object-Oriented Programming, Relational Databases, Web Development, Agile, Scrum