Matthew Gouvin

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WORK EXPERIENCE

Amazon Web Services   **Arlington, VA**
Junior Systems Development Engineer Intern   *May 2023 – Present*

- Worked backwards from internal customers to create an easy-to-use, React-based single page web application that renders different interactive views and helps business and technical leaders make decisions.
- Utilized AWS Cloud Development Kit (CDK) to provision application resources including the following AWS cloud services: Simple Storage Service (S3), CloudFront, Route53, AWS Certificate Manager, VPC, API Gateway, Lambda.
- Built a CDK-defined CI/CD pipeline; anytime a change is made to one of the source-code repositories, the packages are built, tests are run, and infrastructure resources are automatically re-deployed, and the web application is updated.
- Maximized developer's development time by writing Bash scripts that automated common tasks and daily functions.
- Utilized an agile Kanban framework to manage team projects, provided consistent feedback to my teammates and manager, and pushed code daily using the trunk-based development model.

SURVICE Engineering Company   **Belcamp, MD**
Software Developer (Part-time)   *January 2023 – May 2023*
Software Development Intern   *May 2022 – January 2023*

- Designed and developed an internal web application that helps government and industry users receive answers to their technical inquiries and connect with subject matter experts.
- Leveraged MySQL to make relational database schema changes, created RESTful API endpoints with Node.js and Express, engineered useful server-side and client-side services, and built user-friendly components with Angular.
- Facilitated onboarding training for new team members by explaining the end-to-end workflow and helping them configure their development tools; amended documentation to reflect up-to-date development instructions.
- Regularly devised and implemented refactoring solutions that improved software design and made the code more readable; in some instances, the size of the codebase was reduced by over 400 lines of code.
- Pitched solutions to technical problems that impacted the entire team, provided constructive feedback daily to team members' code, and worked in an agile development environment.

George Washington University Usable Security and Privacy Lab   **Washington, D.C.**
Undergraduate Research Assistant   *March 2022 – May 2022*

- Examined security differences between applications on the Google Play Store and those on five third-party stores.
- Formulated a relational database schema using MySQL to store data that is collected from web-scraping tools.
- Wrote detailed documentation and helped my peers who continued the project over the summer.

EDUCATION

George Washington University   **Washington, D.C**.
B.S. Computer Science. GPA 3.97.
Relevant Coursework: Software Engineering, Systems Programming, Data Structures & Algorithms.
Awards: Dean's List 2020-2023, Outstanding Academic Achievement Award 2023

Chariho High School   **Wood River Junction, RI**
Graduated as valedictorian with high honors.
National Honor Society. Editor-in-Chief of school newspaper. President of the Chariho High School Chorus.

SKILLS

Languages: Java, C, JavaScript, SQL, Python   **Server-Side**: Node.js, Express
DevOps: Amazon Web Services, Docker, Gitlab, Git   **Client-Side**: HTML, CSS, Bootstrap, Angular, React