Jane Jacobson

Software Developer

Clearance: Secret

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EXPERIENCE

Booz Allen Hamilton — McLean, VA
Backend Developer — *Sep. 2024 – Jun. 2025*

- **Back-End Development**: Implemented Java backend functionality for a distributed networking application for the Department of Defense, including the requesting, sending, and transforming data as Protobuf messages between hosts and as JSON responses for a React-based UI using Javalin.
- **Database & Schema Management**: Managed PostgreSQL databases and Protobuf schemas to ensure consistent, reliable communication across distributed systems.
- **Security Compliance**: Maintained DISA STIG compliance by auditing services for vulnerabilities and implementing required remediations.
- **Documentation**: Authored and maintained developer and end-user guides covering installation, configuration, usage, and troubleshooting of core products and services.
- **Systems Integration**: Integrated product with Palantir for data exchange through Gaia. Interfaced with radio hardware by developing Python scripts with GNU Radio libraries to process received IQ signals into Protobuf messages digestible by the network.
- **Identity & Access Management**: Managed Keycloak realms—implementing role-based access control, automating account provisioning, updating configurations, and integrating authentication flows with adjacent projects.
- **Agile Practices & Collaboration**: Participated in Scrum ceremonies to drive continuous, iterative delivery alongside cross-functional teams.

CGI Federal — Fairfax, VA
Full Stack Developer — *Jan. 2022 - Sep. 2024*

- **Leadership**: Led efforts to create new services for Department of Veterans Affairs including requirements analysis, design, implementation, and coaching of team members.
- **Front-End Development**: Developed and integrated iframe-based Angular applications to enhance existing websites with responsive and intuitive interfaces while maintaining 508c compliance. Utilized AG Grid and Bootstrap libraries extensively for the organization and display of data. Developed additional tools for data modification and creation using Angular Material libraries.
- **Back-End Development**: Created Java-based back-end services using Spring JPA and custom SQL for communication with an Oracle database. Focused on organizing large data objects while programmatically maintaining database integrity and providing efficient endpoint responses.
- **Scripting & Automation**: Developed and maintained Jenkins pipelines for the compilation and testing of code, uploading to Azure storage and Quay, and deployment to Red Hat Linux environments with use of OpenShift for containerization. Created Bash and Python scripts for automating repetitive tasks.
- **Agile Practices & Collaboration**: Utilized Scrum-style Agile practices and ceremonies for continuous and iterative development. Maintained communication with designers, client representatives, developers, database administrators, and 508c officers to ensure alignment on project goals, culminating in a client demo at the end of each sprint.

George Mason University — Fairfax, VA
Teaching Assistant — *Jan. 2023 - May. 2023*

- **Teaching**: Hosted lab periods and office hours for the instruction of systems programming students

FastTrack EMS — Chesapeake, VA
Paramedic — *Sep. 2017 - Aug. 2021*

- **Operations**: Led ALS patient care in interfacility transports and emergency 911 responses, ensuring operational effectiveness of medical and vehicular equipment for efficient emergency services.
- **Communications**: Managed critical communication and coordination with healthcare teams for seamless patient care transitions, while maintaining detailed and accurate documentation of patient care.

Education

George Mason University Fairfax, VA
Masters in Computer Science *Jun. 2023 – May 2026*

- MS-CS with concentration in Machine Learning.
- Current course load focuses on data mining.

George Mason University Fairfax, VA
Bachelors in Computer Science *Aug. 2021 – Dec. 2023*

- **Teaching Assistant**: Assistant instructor for C and systems programming courses.
- **Azucar**: Lead instructor and organizer for GMU's latin dance club
- **GADIG**: Unity and C# programmer for GMU's game design club

Projects

- **Compiler**: Full lexer, parser, and syntactic analyzer implementation of an ALGOL 68 like programming language. Written in Java using Flex and Bison
- **Robot**: An ongoing exploration into autonomous robotics utilizing ROS and a Raspberry Pi. Challenges have spanned topics including electrical engineering, 3d modeling, machine learning, and computer vision with the ultimate goal of creating a quadrupedal robot capable of completing small chores.
- **Android App**: Mobile application developed in android studio for organizing relationships. Written in Java with an SQLite database

Technical Skills

- **Programming Languages**: Java, SQL, C, C#, C++, JavaScript/TypeScript, Python, Rust, Haskell, Assembly, HTML, CSS
- **Frameworks & Libraries**: Angular, React, Spring Boot, Javalin, Express, Bootstrap, Mockito, GNU Radio, Pandas, Keras, Tensorflow, Tailwind
- **DevOps & CI/CD**: Docker, Kubernetes, OpenShift, Jenkins, Git, Azure DevOps
- **Databases & Data Formats**: Oracle Database, SQLite, PostgreSQL, NoSQL, MongoDB, Protobuf, JSON
- **Tools & Platforms**: Android Studio, Palantir Gotham, Keycloak, Jira, Bitbucket, Github, Maven, Gradle, Node.js, npm, Postman, SonarQube, RabbitMQ
- **Operating Systems**: Windows, Ubuntu, Red Hat Enterprise Linux, Unix/Linux
- **Methodologies & Testing**: Agile/Scrum, Unit / Integration Testing, REST, Object Oriented Design,