

James Jee

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EDUCATION

George Mason University

Bachelor of Science in Computer Science

Fairfax, VA

May 2024

WORK HISTORY

Software Developer

Technical Data Analysis, Inc

May 2024 - February 2025

Lexington Park, MD

- Developed and deployed a full-stack Java-based web application automating data ingestion and validation workflows, enhancing operational efficiency and accuracy.
- Designed and integrated RESTful APIs with standardized JSON payloads to enable modular frontend-backend communication and ensure consistent data exchange with Oracle backend services.
- Achieved a 75% reduction in data load processing time by implementing real-time validation and error detection workflows, deployed web app on Apache Tomcat to support high scalability.
- Built a web application to process uploaded Excel files, automated data cleansing and transformation to prepare data for storage in an Oracle database, reduced processing time by 66%.
- Participated in Agile sprints with cross-functional teams and delivered customer-requested features through iterative updates using GitLab CI/CD aligned with SDLC best practices.

Network Security Research Assistant

George Mason University

May - August 2021

Fairfax, VA

- Developed a packet-capturing tool analyzing over 10,000 real-world data packets and exposing plaintext traffic in unsecured web sessions, identifying critical security vulnerabilities across 70% of inspected data.
- Reinserted secured packets into live network traffic after encrypting 90% of captured data in real time using a lightweight C-based module.
- Utilized C, Linux, eBPF, Tcpdump, libpcap, Wireshark, and Raspberry Pi.

PROJECTS

Finance Tracker — Personal Project | *React, Vite, Node.js, GitHub*

September - December 2025

- Built a full-stack web application to manage income, expenses, budgets, and savings goals, centralizing personal financial data into a dashboard.
- Developed React components for entering transactions, adjusting monthly budgets, and budgeting by category.
- Stored user-submitted data in local memory and returned a visual summary representing monthly spending, remaining budget, and savings progress.

End-to-End Web Validation — Personal Project | *React, Playwright, Node.js, GitHub*

July 2025

- Built an E2E web scraping and QA automation suite to validating article timestamps on a public news website, simulating real-world regression testing workflows.
- Developed a React-based dashboard to trigger test runs, visualize results through charts, and export test logs to Excel.
- Implemented assertions, ISO/Unix timestamp validation, pagination checks, and delta tracking with color-coded UI feedback and custom retry logic.

CERTIFICATION

Microsoft Certified: Azure Fundamentals AZ-900

September 6, 2025

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Node.js, Python, SQL, C, C++, HTML, CSS, MATLAB, VBA

Web & Database Technologies: RESTful APIs, JSON, Bootstrap, React, Vite, Apache Tomcat, PL/SQL, MySQL, Oracle, MongoDB, JDBC

Developer Tools & Frameworks: GitHub, GitLab, Bitbucket, Jira, Playwright, IntelliJ, Eclipse, Visual Studio, PyCharm, Jupyter Notebook, Web Console, Linux