

# James Jee

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## EDUCATION

<b>George Mason University</b> <i>Bachelor of Science in Computer Science</i>	Fairfax, VA May 2024
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## WORK HISTORY

<b>Software Developer</b> <i>Technical Data Analysis, Inc</i>	May 2024 - February 2025 Lexington Park, MD
<ul style="list-style-type: none"><li>Developed and deployed a full-stack Java-based web application automating data ingestion and validation workflows, enhancing operational efficiency and accuracy.</li><li>Designed and integrated RESTful APIs with standardized JSON payloads to enable modular frontend-backend communication and ensure consistent data exchange with Oracle backend services.</li><li>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.</li><li>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%.</li><li>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.</li></ul>	
<b>Network Security Research Assistant</b> <i>George Mason University</i>	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

<b>Finance Tracker — Personal Project</b>   <i>React, Vite, Node.js, GitHub</i>	September - December 2025
<ul style="list-style-type: none"><li>Built a full-stack web application to manage income, expenses, budgets, and savings goals, centralizing personal financial data into a dashboard.</li><li>Developed React components for entering transactions, adjusting monthly budgets, and budgeting by category.</li><li>Stored user-submitted data in local memory and returned a visual summary representing monthly spending, remaining budget, and savings progress.</li></ul>	

<b>End-to-End Web Validation — Personal Project</b>   <i>React, Playwright, Node.js, GitHub</i>	July 2025
<ul style="list-style-type: none"><li>Built an E2E web scraping and QA automation suite to validating article timestamps on a public news website, simulating real-world regression testing workflows.</li><li>Developed a React-based dashboard to trigger test runs, visualize results through charts, and export test logs to Excel.</li><li>Implemented assertions, ISO/Unix timestamp validation, pagination checks, and delta tracking with color-coded UI feedback and custom retry logic.</li></ul>	

## CERTIFICATION

<b>Microsoft Certified: Azure Fundamentals AZ-900</b>	September 6, 2025
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## TECHNICAL SKILLS

<b>Programming Languages:</b> Java, JavaScript, Node.js, Python, SQL, C, C++, HTML, CSS, MATLAB, VBA
<b>Web &amp; Database Technologies:</b> RESTful APIs, JSON, Bootstrap, React, Vite, Apache Tomcat, PL/SQL, MySQL, Oracle, MongoDB, JDBC
<b>Developer Tools &amp; Frameworks:</b> GitHub, GitLab, Bitbucket, Jira, Playwright, IntelliJ, Eclipse, Visual Studio, PyCharm, Jupyter Notebook, Web Console, Linux