

Jason P. Yau

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EDUCATION

University of Central Florida

Orlando, FL

Bachelor of Science in Computer Science, Cum Laude

Aug. 2022 – Dec. 2025

- **Relevant Coursework:** Software Development, Artificial Intelligence, Natural Language Processing, Senior Design, Object-Oriented Programming, Game Development, Computer Graphics, Competitive Programming, Cybersecurity

EXPERIENCE

Lockheed Martin

Orlando, FL

Software Engineer I

Jan. 2026 – Present

Software Engineer Intern

May 2024 – Jan. 2026

- Integrated the Portable Maintenance Aid (PMA), used to maintain the F-35 fighter jet, with simulators within the [F-35 Maintenance Training](#) program, responsible for [training 20,000+ F-35 maintainers in 13+ countries](#)
- Authored **75+ merge requests** containing **PowerShell, Java, and C#** code to **resolve 200+ Jira issues** involving GUI applications, PMA deployment scripts, SQL scripts, internal tooling, and CI/CD pipelines
- Created a dependency-free pipeline that parses large datasets to verify build compliance with U.S. export controls, completing a stretch goal and **fully automating a manual engineering task of 4+ hours**
- Developed and maintained a **.NET** GUI and CLI application that allows a technician to deploy multiple PMAs across a classroom environment concurrently, **improving deployment efficiency by >1200%**
- Coordinated with leadership and site personnel to deliver critical software fixes (SEV1, SEV2) to international sites (U.S., U.K., Poland, Finland, Australia), unblocking student training capabilities

University of Central Florida

Orlando, FL

Undergraduate Teaching Assistant

Aug. 2025 – Dec. 2025

- Hosted office hours and [2 weekly lab classes](#) to teach and review data structures & algorithms to **100+ students**
- Wrote [Python scripts](#) for graders to compile, run, and score source code written in C on a remote Ubuntu server

PROJECTS

[DevSwipe](#) | *MERN (MongoDB, Express.js, React, Node.js), Socket.io, TypeScript, Vite, Amazon Lightsail*

- Served as the **Project Manager** and **Full Stack Developer** in a team of 6, leading the development of a web application that allows developers to propose project ideas and match with other developers
- Leveraged **WebSocket** via **Socket.io** to create an **interactive and dynamic** user experience by **displaying real-time updates** in chat messages, read receipts, project ideas, developer matches, and notifications
- Contributed to the planning, development, and testing of **20+ REST API** endpoints, including a session based login system with email verification via Passport and Nodemailer and CRUD endpoints for projects and messages
- Created a **CI/CD pipeline** via GitHub Actions to synchronize changes from the GitHub repository to the production **Amazon Lightsail server** running Apache, **increasing developer efficiency by ~25%**

[Chat-App](#) | *Spring Boot, MariaDB, React, TypeScript, Bootstrap, Webpack, AWS SDK, Cloudflare*

- Leveraged **Cloudflare R2** and the **AWS SDK (Amazon S3)** for Java to allow users to upload and attach images to messages, utilizing cache rules, rate limits, and file compression to **reduce storage costs by >40%**
- Created an efficient database relationship between users, group chats, and messages to **store 10,000+ messages** that can be retrieved via pagination with ~100ms latency

jasonpyau.com | *Spring Boot, MariaDB, Bootstrap, JUnit, Cloudflare*

- Created a **portfolio website** that **dynamically loads** blog posts, experiences, projects, and skills from MariaDB and is **fully customizable** with an admin panel, allowing modification of data via [40+ REST API](#) endpoints
- Enabled server-side caching for static REST API content, **reducing load times by >50%** in production
- **Self-hosted** on a Raspberry Pi and protected via **Cloudflare**, handling [7,000+ unique monthly visitors](#) and maintaining a **>99% server up-time** over the span of **3+ years**

TECHNICAL SKILLS

Languages: Java, C, C++, PowerShell, TypeScript, JavaScript, HTML, CSS, Python, C#, Bash, SQL

Frameworks/Libraries: Spring Boot, Express.js, React, .NET Framework, Flask, Bootstrap, Tailwind CSS, JUnit

Software/Tools: MariaDB, MongoDB, MySQL, Node.js, Maven, Git, GitHub, GitLab, Jira, Confluence, VirtualBox, Hyper-V, Active Directory, Group Policy, Oracle Database, Jenkins, Docker, Apache, AWS (Amazon Web Services), Cloudflare, Postman, Swagger, Excel, Jupyter Notebook, Unity, Visual Studio Code, Windows Server, Linux