Jaxon Poentis

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EDUCATION

Washington University in St. Louis — St. Louis, MO
Bachelor of Science in Computer Science + Math — *May 2027*
- GPA: 3.76/4.0
- Awards: *Eagle Scout, Anheuser-Busch Scholar, Dean's List*
- Relevant Course Work: *Parallel Programming (Java), OOP Lab (C++), Rapid Prototyping (Python, MySQL, Javascript, Node.js), System Software (C, x86 ASM), Cloud Computing (Docker), Intro to Encryption*

EXPERIENCE

Tesla — Jan. 2026 – May. 2025
Incoming Software Engineering Intern — *Fremont, CA*

Spectrum — May 2025 – Aug. 2025
Software Engineering Intern — *St. Louis, MO*
- Built a **Python** coupling analysis tool with custom search algorithms and AST parsing to map nested Java classes, reducing refactoring errors and saving 2–4 days of manual testing per development cycle.
- Added new backend controller logic to trigger automated **email notifications** when engineering jobs were marked as "help needed," enabling faster cross-team collaboration and response times.
- Modified **Java** backend controllers and **JavaScript** frontend to enable Ops engineers to choose BFS search directions for automated record replication across Salesforce orgs, saving 3+ hours of manual record insertion.

WashU Information Technology — Apr. 2025 – Present
Software Developer — *St. Louis, MO*
- Led migration of Firebase-based API calls into a **Node.js/TypeScript** backend, refactored the React UI, and deployed via Docker on **Vultr** Linux environment, allowing game access for 100+ students in China.
- Developed **React.js** form validation and **Supabase** SQL RPC functions to capture item inputs and generate new inventory orders, streamlining order entry and checkout for 5+ clients.

Health XR — Sep. 2024 – Jan. 2025
Founding Software Engineer — *St. Louis, MO*
- Led design and implementation of an XR healthcare assistant in **Unity + C#** with a **Python FastAPI** backend providing REST endpoints to scan and read medical documents, winning #1 at St. Louis startup tech week.

PROJECTS

MilePM Bot | *Go, Supabase, PostgreSQL* — May. 2025 – Present
- Implemented a task manager discord bot with **Go**, using a **Supabase + PostgreSQL** database deployed on Vultr VPS, to allow 5+ project teams and 100+ users to organize and track work across different milestones with tasks.

Palantir Client Landscaper | *Python, Node.js, TypeScript, Docker, React, LLM* — Mar. 2025 – May 2025
- Collaborated with Palantir engineers to build a backend pipeline that fed meeting data into an **LLM**, generating relationship hierarchies via custom **TypeScript** ontology functions for 10+ orgs.
- Built a Dockerized **Node.js/TypeScript** service using Discord **OAuth** to launch **Python** Discord bots that joins the user's voice channel, record audio, and upload data into the LLM data pipeline every 20s with sub 1s-delay.

Swarm Robotics | WashU Robotics Software Lead | *C++, Python, Ros2, Pub/Sub* — Sep. 2023 – May 2025
- Architected and built a modular real-time **C++/Python** pipeline in Linux using ROS2 pub/sub to filter camera data to calculate 4+ robot poses and ids, allowing for sub 20 ms feedback loop for PID control.

Multiplayer CapyCampus | *Go, React.js, TypeScript* — Mar. 2025 – May 2025
- Developed a Club Penguin style multiplayer capybara game using a **Go** Gin/Gorilla WebSocket and GameManager with a pub-sub/action queue, using a **React.js/Phaser.js** client.

TECHNICAL SKILLS

Languages: Java, Python, C++, C, C#, Go, SQL (Postgres), JavaScript, TypeScript HTML/CSS
Frameworks: Node.js, React.js, Phaser.js, Express.js, Gin, Gorilla WebSocket, FastAPI, ROS2, OpenCV, Unity
Technologies: Docker, Supabase, Firebase, Vultr, MongoDB, PostgreSQL, UDP/TCP, Git, Linux, OAuth