

# Jonah Sims

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Portfolio: <https://bit.ly/jonahsims>

## EDUCATION

**Texas A&M University**, College Station, Texas

May 2027

*Bachelor of Science in Multidisciplinary Engineering Technology (Mechatronics)*

*Minor in Embedded Systems Integration*

## EXPERIENCE

**Voyant Inc. - Financial Planning Solutions** | Austin, TX

June 2025 - August 2025

*Software Engineering Intern*

- Architected and implemented an AI-driven backend system using Google Gemini to automate PDF comparisons across software environments, reducing manual QA time and ensuring accuracy in ~600 client-facing documents
- Developed a two-stage Gemini API pipeline with a repeatable prompt evaluation framework, leveraging structured QA logic and Deep Research Feedback Model feedback loops to drive dynamic prompt optimization
- Built and documented REST API endpoints in Flask to support Gemini's Retrieval-Augmented Generation, AI-driven post-processing, and dynamic file management
- Built a JSON-based data layer to store and query different results with custom filtering logic on file metadata attributes, powering both AI and non-AI modes of post-processing comparison
- Contributed to Agile development with PRs, code reviews, and team demos, collaborating directly with the Chief Engineer, SVP of Software Engineering, and QA Manager; managed workflows using Bitbucket and Jira

**Pi Kappa Phi - Fraternity** | College Station, TX

Spring 2024 - Present

*Treasurer, October 2025 - Present*

- Manage a \$120K+ annual budget, ensuring fiscal compliance for a 100+ member organization
- Liaise with Pi Kappa Phi National Headquarters and university officials to ensure all financial operations met legal, tax (501(c)(7)), and insurance requirements
- Streamlined chapter finances by consolidating accounts and automating reimbursements, reducing admin workload 30%

## PROJECTS

### Distributed Linux Homelab & Network Infrastructure

- Engineered a **3-node Raspberry Pi cluster** running Ubuntu to centralize automation and development environments
- Architected a secure Tailscale mesh VPN enabling low-latency remote access to LAN services across locations
- Deployed **containerized applications** (HomeKit integration, Wake-on-LAN) using **Docker and Portainer** for streamlined service orchestration
- Architected a **cross-platform hardware interface** to bypass OS-specific driver restrictions, enabling full remote management of diverse lab equipment from a Mac environment

## ACTIVITIES

**Aggies In Tech High Impact Program** | College Station, TX

October 2023 - Present

*Member*

- Member of high-impact tech industry immersion program; participated in product development workshops and collaborative projects

**Viperbots FRC Team 6800 Valor** | Austin, TX

May 2021 - May 2023

*Hardware Lead, Design Lead, Project Manager*

- Directed a five-member team in CADing and developing critical robotic subsystems
- Won **Excellence in Engineering Award** at the **FIRST World Championship** and FIT Texas State Championship

## SKILLS

**AI & Software:** AI APIs (Google Gemini/Vertex AI), Python, C/C++, Flask, REST APIs

**DevOps & Networking:** Docker, Portainer, Tailscale, Linux (Ubuntu), Git/Bitbucket, JIRA, Postman

**Embedded Systems & Circuits:** ARM Cortex-M Architecture, Circuit Building & Troubleshooting, BJT/MOSFET Amplifier Design, Op-Amps, and Filter Design

**Engineering Tools:** MATLAB, Multisim, CAD (Onshape, Autodesk Fusion, SolidWorks), 3D Printing (Slicing/Validation), and Digital/Analog Circuit Simulation

**Manufacturing:** CNC Mills & Routers, Manual Mills, Lathes, Mechanical Assembly, and Technical Drawings