

# pynappo

San Jose, CA

github.com/pynappo • Mobile: +1 (xxx) xxx-xxxx • pynappo@proton.me • linkedin.com/in/put-jhere/

## EXPERIENCE

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### Software Development Engineer Intern

May 2025 - August 2025

Amazon Web Services

Palo Alto, CA

- Integrated an internal tool in Java to deploy copies of pre-prod infrastructure onto personal AWS accounts, enabling safe testing up to 10 minutes faster than previous testing workflows.
- Resolved a critical CLI bug by collaborating with the internal tooling team, enabling tool compatibility with our complex services.
- Optimized local development builds by removing unnecessary tasks, slashing build times by over 60%.
- Reduced infra costs by >\$2,000 per month / developer by reconfiguring service scaling on personal accounts.
- Authored 5 pages of technical documentation on tool usage and maintenance, ensuring long-term sustainability.
- Drove project velocity across 6 Agile sprints by proactively communicating updates, upcoming work, and blockers.

## EDUCATION

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### San Jose State University

San Jose, CA

Bachelor of Science in Computer Science – GPA: 3.91

Aug. 2022 – May 2025

**Related coursework:** Data Structures and Algorithms, Object Oriented Design, Processing Big Data, Operating Systems, Computer Architecture, Information Security, Advanced Python, Programming Paradigms, Software Engineering, Database Management Systems.

## PROJECTS

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### neo-tree.nvim

December 2024 – Present

- Lead maintainer of one of the largest Neovim file-tree plugins, w/ 5,000+ GitHub stars & ~20,000+ users.
- Cut parsing time for Git statuses by over 50% by optimizing hot paths and deferring work.
- Engineered a robust GitHub Actions CI pipeline, running hundreds of unit and end-to-end tests to ensure stability across multiple Neovim versions and operating systems.
- Refactored 3,000+ lines of Lua code to be type-annotated for improved developer experience.
- Personally fixed 70+ issues - non-ASCII text handling, performance issues, user feature requests, UI bugs, etc.

### storycraft

April 2024

- Led a team of 4 to build an AI interactive storytelling app in 2 days that won “Best AI Hack” at SFHacks 2024.
- Engineered prompts for Mixtral 8x7B and Stable Diffusion XL to generate stylized stories based on user choices.
- Implemented our designer’s front-end UI designs from Figma in React components using Tailwind CSS.
- Constructed REST end-points backed by MongoDB and AWS S3 to store stories, characters, and illustrations.

### Brushstroke Bargains

May 2024

4 52022rebtmeceD – reb0brotcO.D - . - -tcOceD - Led a team of 4 to build an interactive website for selling art, using MySQL and Jakarta Server Pages.

- Secured user data using email + password authentication (SHA256 hashing) in MySQL + Java.
- Engineered a Java backend endpoint to store images separately from the database, reducing database size by 90% and improving query times by 10x.
- Built a mobile front-end UI using Shoelace web components.

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### ProfessorSearch

February 2024 – June 2024

February 2024 - Scrapped RMP’s GraphQL API with Python and Postman queries to retrieve updated data across 1000s of schools.

- Wrote a TypeScript service to fetch professor data by school on-demand, improving initial search latency by >90%.

- Integrated Elasticsearch to index 10+ MB of professor data, achieving sub-second search and aggregation latency.
- Designed the front-end UI with shadcn-svelte and Tailwind CSS for a modern UI.
- Containerized the app and services using Docker Compose for consistent local development and deployment.

## TECHNOLOGIES

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- **Languages:** C#, Java, TypeScript/JavaScript, HTML, CSS (+ SASS/Less), Python, Lua, Go, C, C++, SQL
- **Web frameworks/UI libraries:** React/Next.js, Svelte/SvelteKit, Tailwind CSS, daisyUI, Shoelace
- **Services:** MongoDB, PostgreSQL, Prisma, AWS S3, ElasticSearch, MySQL
- **Tools/OS:** Git, Neovim, IntelliJ, Docker, Postman, Bash/ZSH, Linux/Unix, GitHub Actions