

David Le

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PROJECTS

storycraft

April '24

- Co-led a team of 4 to create an AI-generated storytelling app for children, won “Best AI Hack” at SFHacks 2024.
- Collaborated with UI/UX designer to create a consistent and unique UI.
- Connected React + TailwindCSS frontend with MongoDB and AWS S3 to save generated stories.
- Utilized Fireworks.ai to interface with the Mixtral 8x7B MoE LLM and Stable Diffusion XL.

tree-sitter-mdx

January '24 – Present

- A dual-stage parser for the MDX markup language.
- Created a text scanner in C, and a recursive text grammar with RegEx in JavaScript.
- Wrote a robust test harness to ensure parity with existing MDX parsers.
- Developed integrations into modern text editors such as Neovim and Helix.

ProfessorSearch

February '24 – Present

- A web UI for *ratemyprofessor.com* (RMP) built with SvelteKit and Elasticsearch, aiming to improve search turnaround time for university students.
- Wrote Python scripts to interface with RMP's GraphQL API.

EDUCATION

San Jose State University - GPA: 3.86

B.S. Computer Science, Expected Spring '26

Related coursework: Data Structures and Algorithms (in Java), Object Oriented Design, Processing Big Data, Operating Systems, and Computer Architecture. ***In progress:*** Information Security, Advanced Python, and Programming Paradigms.

ACTIVITIES

Open Source Contributions

- **Neovim plugins** (2022 – Present) – Contributed to popular text editor plugins:
 - Robust error handling for permission-based file scanning (*neo-tree.nvim*, Jan. 2024)
 - Clearer and more descriptive error reporting for plugin management (*lazy.nvim*, Feb. 2024)
 - Many maintenance patches to help plugins keep up with the rapidly changing Neovim API.
- **Scoop** (Oct. 2022) – Merged more detailed version tracking into a popular Windows package manager, allowing the manager to track nightly releases of packages.

SCE Public Relations

Spring '23 – Present

- Designed custom NFC business cards for a university society with a manufacturer from China. Plans to double as a proof-of-concept ID card system using a Raspberry Pi or other embeddable device, integrating passkeys support.

SKILLS

- **Programming languages:** C#/Java, TypeScript/JavaScript, Python, Lua. ***Learning:*** Go, C++
- **Web frameworks:** React, Svelte/SvelteKit, Next.js
- **Tools:** Git, Neovim, VSCode, IntelliJ
- **Database-related:** MongoDB, PostgreSQL, Prisma