

Wilhelm Alexander Huper

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EDUCATION

University of Florida

Aug. 2021 – Dec. 2024

B.S. in Computer Science & Minor in Mathematics

- **Coursework:** Programming in Java and C++, Data Structures and Algorithms, Operating Systems, Software Engineering, Compilers, AI for Games and Virtual Environments, Multi-Modal ML in Python, UX Design, Algorithm Abstraction, Computational Linear Algebra

TECHNICAL SKILLS

Programming Languages: Python, C++, Go, Java, JavaScript, TypeScript, SQL, HTML/CSS

Web Development: Svelte, React, React Native, Astro, Next.js, Three.js, Tailwind CSS, ShadcnUI, HTMX

Databases: Firebase, PostgreSQL, MongoDB, MariaDB

Cloud & DevOps: AWS, Git, Linux

Design Tools: Figma, Miro, Canva

EXPERIENCE

Software Engineer Intern

May 2024 – Aug. 2024

Pedestal Holdings

Denver, CO

- Built Dalia, an AI cooking assistant (Python / TogetherAI / Edamam) for personalized recipes & meal planning.
- Trained Dalia utilizing few-shot learning & context pruning, achieving 36% memory reduction & 1.8s queries.
- Modernized Gourmet For Good's CaterMatrix to Astro/HTMX, introducing custom dashboards & staff updates.

PROJECTS

Connect 4 AI | *Svelte, TailwindCSS, Go*

Feb. 2025

- Engineered full-stack Connect 4 platform with Svelte frontend and Go backend implementing game logic
- Implemented alpha-beta pruning, reducing evaluated nodes by 90% vs brute-force minimax ($O(b^{d/2})$ vs $O(b^d)$)
- Optimized evaluation heuristics enabling 8-ply searches in <200ms per move

AIDE | *Next.js, Python, TailwindCSS, ShadcnUI*

Dec. 2024

- Designed a tree-based UI for LLMs, enhancing multi-threaded dialogue navigation and context management.
- Integrated SGLang, achieving up to 5-6.4x higher throughput and 80% lower first-token latency.
- Assembled feature rich components to propel AIDE's Vercel Real Experience score to 96% from 54%.

Blockchain Coin Alert System | *Python, Telegram API, PostgreSQL*

Aug. 2024

- Developed a blockchain monitoring system tracking 10,000+ coins, delivering real-time alerts to 50+ users.
- Engineered TTLCache system achieving 92%+ hit rate, preventing 1k+ redundant alerts daily.
- Developed multi-chain architecture supporting simultaneous Ethereum, Base, and Solana contract monitoring.

ColorStack UF Website | *Svelte, TailwindCSS, JavaScript*

Aug. 2024

- Led development of an interactive About page with 4 new features, including LinkedIn e-board integration.
- Built responsive components with TailwindCSS, ensuring seamless usability across 10+ device types.
- Collaborated with Gator User Design team to achieve 98% design-to-development accuracy using Figma.

COMMUNITY & LEADERSHIP

Mentorship Coordinator

Mar. 2024 - Present

ColorStack

- Designed 3 skill-building initiatives, enhancing programming proficiency for 10+ ColorStack members.
- Grew the UF chapter to more than 400 members in its inaugural year, establishing a strong community presence.
- Created mentorship programs for 20+ members, enhancing career prep and contributing to 5 job offer successes.