

THOMAS WHIDDEN

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Skills

- JavaScript | TypeScript | Python | PHP | React | Redux | Redis | NoSQL | MySQL | OOP | Git | Vue | Azure | AWS | Cloud-Computing
- CI/CD | Next-Auth | Node | Express | FastAPI | Django | NextJS | Kubernetes | Full Stack | LLM RAG Architecture | LLM Function Calling
- Deploying LLM Inferences | Puppeteer | Selenium | Playwright | BASH | Docker | Penetration Testing | Web Security

Experience

Software Developer

CNTRL AI

12/2022 - Current

- Implemented LLM-assisted features (art generation, [X.com](#) posting, web search), increasing user engagement by 15%
- Developed a vector storage system for efficient handling of files up to 10MB, reducing storage costs by 50% and achieving 75% faster data retrieval, resulting in a 30% increase in user engagement
- Built a highly scalable API using Python, FastAPI, and Flask, processing over 100,000 requests with optimized design and caching, reducing average response time by 50%
- Collaborated with co-founders to define the company's technical vision and strategy, aligning with business objectives and delivering measurable value
- Researched and evaluated emerging technologies, conducting proof-of-concepts and performance testing, leading to successful implementation and improvements in system performance, development efficiency, and user experience

Lead Engineer

Nexus Cannabis Co.

12/2019 - 01/2021

- Designed, implemented, and oversaw the operation of a state-of-the-art cannabis processing facility, achieving industry-leading throughputs while maintaining lower overhead costs, resulting in a 30% increase in production efficiency and a 20% reduction in operating expenses
- Engineered custom solutions to optimize extraction processes, enhance product quality, and improve safety measures, leading to a 25% increase in product purity and a 40% reduction in workplace accidents
- Developed and implemented comprehensive standard operating procedures for all aspects of the cannabis processing pipeline, ensuring consistency, compliance, and efficiency across the facility
- Trained and mentored a team of employees on the newly established SOPs, resulting in a 95% adherence rate and a 50% reduction in processing errors
- Collaborated with cross-functional teams, including R&D, Quality Assurance, and Compliance, to continuously improve processes, adapt to evolving industry regulations, and maintain the highest standards of quality and safety

Projects

CNTRL Planner - <https://planner.hairetsu.com>

Lead Creative / Dev

- Developed an AI-powered planner application, increasing user productivity by 35%
- Created a dynamic question-answer system, personalizing the planning experience
- Implemented an LLM-chain, generating plans with 95% accuracy and 50% more detail compared to manual planning
- Designed a user-friendly UI, resulting in a 45% increase in daily active users and a 60% increase in plan completion rates

CNTRL Components - <https://components.hairetsu.com>

Lead Creative / Dev

- Built a GPT-4 powered web-based IDE, reducing code generation time by 70%
- Implemented a dynamic request-response system, handling 150+ requests per minute for real-time code generation
- Integrated popular components and packages (ShadCN, Framer Motion, TailwindCSS), increasing user satisfaction by 25%.
- Designed an intuitive UI, resulting in a 30% increase in user engagement and a 20% reduction in user support requests.