Jeffrey Lin

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EDUCATION

University of Waterloo — Sep 2024 – Apr 2029
Bachelor's of Applied Science in Systems Design Engineering

WORK EXPERIENCE

Software Engineer Intern — Jan 2025 – Apr 2025
Agentnoon Inc (YC W22) — *Richmond Hill, ON*
- Engineered **access control and permissions logic** for **100+ business dashboards**, supporting **5,000+ users**
- Developed **10+ database migrations** using **Sequelize** to support new features and optimize data schemas
- Designed efficient **tree traversal algorithms** for org charts, improving node search and reordering speed by **80%**
- Refactored **legacy Vue components** and optimized rendering logic, boosting **component reusability by 3×**
- Collaborated with **cross-functional teams** to ship internal tools used by **10+** enterprise clients like **Nestlé**

PROJECTS

Brainrot.mov (1k+ users, $400 MRR) - AI-Powered Content Creation Platform ↗
SST, Bun, AWS Lambda, PostgreSQL, Docker, Stripe, ffmpeg, Cloudflare, CloudFront, S3, SQS, Zero (RociCorp)
- Built a content creation tool that's generated 5+ million views and 400k+ followers on social platforms
- Scaled to **1k+ users**, **50+ paying customers**, and **$400 MRR** in only one month
- Designed scalable serverless architecture with **AWS Lambda**, **SQS**, and **SST** for on-demand media generation
- Implemented end-to-end media pipeline using **Dockerized ffmpeg** for low latency
- Handled **payment processing** and subscriptions using **Stripe**, with secure JWT auth via Better Auth
- Used **Bun** for fast JS runtime, and **Drizzle ORM + Zod** for type-safe schema and validation across services

UWSummit (Acquired) - Social platform and Job board ↗ ⌂
Next.js, Supabase, ProxyCurl, React, PostgreSQL, Node.js
- Co-founded and developed a high-traffic social platform from scratch, driving **700+ users in the first 3 days**
- Achieved **100,000+ page visits** and maintained a low **16% bounce rate**, indicating strong user engagement
- Secured the interest of **20+ companies** like **Shopify** and **YC-backed** startups towards the job board
- Integrated LinkedIn scraping via custom **RESTful API routes** to auto-generate user profiles with no friction
- Implemented **secure authentication workflows** with Supabase Auth, improving user onboarding and security
- Acquired at a valuation of **$10,000** by **Clado (YC X25)**, validating technical execution and product quality

DIH - AI Meta-Framework for LLM Apps ↗ ⌂
Node.js, TypeScript, Next.js, OpenAI, Anthropic, Vercel
- Built and published **DIH**, a TypeScript-based meta-framework on Next.js that simplifies building AI wrapper apps
- Created modules for **chat completions**, **tool calling**, **prompt templating**, and **real-time streaming**
- Designed a provider-agnostic system for **switching between LLMs** (e.g. GPT-4, Claude) with minimal changes
- Developed **create-dih-app**, a CLI to scaffold projects with standard structure and starter examples
- Added utilities like **token counters** and prompt cost tools to help developers manage LLM usage

Agility - LLM driven Workflow Automation Platform ↗ ⌂
Typescript, Deno, 10+ external APIs (GitHub, Gmail, OpenAI, Discord, etc.), Next.js
- Architected a full-stack workflow platform with **20+ modular agents** and third-party API integrations
- Developed an **AI-driven workflow generation feature** to create multi-step workflows from natural language
- Built a dynamic visual canvas, allowing users to **drag, drop, and connect** agents for no-code automation.
- Built a microservices-style backend with **Serverless Functions** to orchestrate agent workflows and sessions
- Handled **OAuth 2.0 and token storage** for Gmail, GitHub, Discord, and LLMs to enable API automation
- Implemented secure authorization using **JWT validation** and **CORS** handling in serverless functions

TECHNICAL SKILLS

Languages: Java, Python, C, C++, C#, JavaScript, TypeScript, HTML, CSS, PHP, SQL
Tools: Git, Google Cloud Platform, AWS, Firebase, Supabase, VS Code, Unity, Node.js, MySQL, PostgreSQL, Bash
Frameworks and Libraries: Next.js, React.js, React Native, Vue.js, Vite, Expo, Django, Express.js, NumPy, Bootstrap, jQuery, TensorFlow, PyTorch, OpenCV, WPILib