

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 3x**
- Collaborated with **cross-functional teams** to ship internal tools used by **10+** enterprise clients like **Nestlé**

PROJECTS

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 **Linkd (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

PackShots - AI-Powered Packing App



React native, Expo, Google Cloud Vision, OpenWeatherMap

- Built a cross-platform React Native/Expo app used by **20+ travelers**, reducing packing prep time by **40%**
- Used Google Vision and weather APIs to **detect 50+ items** and generate **location-based** packing suggestions
- Matched detected items to list entries with **90%+ accuracy** using **Levenshtein distance** for similarity scoring
- Enabled hands-free list updates with speech recognition, improving UX for on-the-go or multitasking users
- Implemented full-featured packing list CRUD with offline storage and real-time progress tracking

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