

# 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

### Product 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

### UWSummit (Acquired at \$10,000 valuation) - Social platform



*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
- Developed a dynamic ELO rating system for pairwise profile voting, driving real-time leaderboard rankings
- 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

### 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 - Cross-platform 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

### CrankFlow - B2B Demand Forecasting Platform



*Python, Chart.js, Prophet, Pandas, Next.js, Typescript*

- Built a full-stack app with Next and Python, generating 90-day sales forecasts for businesses with **95%+ accuracy**
- Integrated Meta's **Prophet** model via Node.js API, processing uploads of up to **50,000+ rows** per forecast request
- Created interactive chart visualizations to display **trends, rolling averages, and 3-sigma confidence bounds**
- Designed a responsive dashboard with filters and **calculated KPIs** like **peak demand and stockout dates**

## 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