

Dongwan (Jamie) Seoh

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EDUCATION

University of Waterloo <i>Bachelor of Software Engineering 2 × scholarships 3 × Hackathon Winner</i>	Sep 2025 – Present 3.96/4.0 GPA
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TECHNICAL SKILLS

Languages: Python, C/C++, TypeScript & JavaScript, HTML & CSS, SQL, Java, R
Frameworks and Libraries: PyTorch, NumPy, React.js, React Native, Next.js, Svelte, Tailwind CSS, FastAPI, Flask
Developer Tools: Git/GitHub, VS Code, Docker, GCP, Azure, Vercel, Cloudflare, MongoDB, Bash, Figma

EXPERIENCE

Full Stack Developer <i>Nebula AI</i>	Nov 2025 – Jan 2026 <i>Waterloo, ON</i>
<ul style="list-style-type: none">Developed a full-stack AI note-taking mobile app with React Native, FastAPI, and PostgreSQL.Implemented an OCR+AI pipeline with Gemini/OpenAI, enabling handwritten text extraction and summaries.Enabled semantic search over 1,536-dim embeddings, cutting retrieval time 40% by IVFFlat indexing.Designed multi-tenant data access using Supabase Auth, JWTs, and RLS policies across 3+ relational tables.Orchestrated the containerization of backend using Docker and deployed to Google Cloud Run.Automated CI/CD pipelines for rapid, reliable deployments and horizontal scalability to Apple's TestFlight.	
Software Developer <i>UW Orbital Satellite Mission Design Team</i>	Sep 2025 – Nov 2025 <i>Waterloo, ON</i>
<ul style="list-style-type: none">Built Mission Control Center dashboards in React to improve visibility into satellite telemetry and mission state.Implemented REST APIs to serve async requests to MCC, standardizing data contracts between subsystems.Authored unit and integration tests, achieving 95% UI coverage with vitest for Mission Control Center.	
Web Development Intern <i>PNPT Co., Ltd.</i>	Jul. 2023 – Aug 2023 <i>Gangnam District, Seoul</i>
<ul style="list-style-type: none">Collaborated on early-stage website optimization for a startup, enhancing usability and brand presentation.Prototyped responsive UI designs using Figma & React, accelerating design iterations and stakeholder feedback.Debugged and resolved cross-browser compatibility issues, ensuring consistent UI rendering across browsers.	

PROJECTS

Quota — DeltaHacks12 First Place  <i>TypeScript, Next.js, React Flow, Gemini, LangChain, MongoDB</i>	
<ul style="list-style-type: none">Engineered a developer tool providing real-time API cost insights, helping startups cut API spend by up to 40%.Built extension with TypeScript providing inline cost annotations, heatmaps, and one-click optimizations.Indexed codebases <3s, 45x faster than AI IDEs, using AST parsing to detect inefficiencies in design choices.Created React Flow sandbox for budget-aware system planning with RAG Gemini chatbot by LangChain.	
Personal CRM — Manage Professional Relationships  <i>Next.js, FastAPI, PostgreSQL, TailwindCSS</i>	
<ul style="list-style-type: none">Built a robust full-stack CRM to centralize and prioritize personal & professional relationships at scale.Architected backend with 20+ REST endpoints, enabling pagination & dynamic fetching for growing datasets.Improved system reliability through caching layers and rate limiting, reducing server load by 30%.Designed a matrix-based algorithm to rank contacts, enabling users to focus on high-value relationships.	

AWARDS

2025 & 2024 Euclid Math Contest	Top 7.6% among all contestants
2025 STEM Fellowship Big Data Challenge Finalist <i>Published academic paper: "Literary Factors Analysis" (DOI #: 10.17975/sfj-2025-001).</i>	

EXTRACURRICULAR INVOLVEMENT

Sponsorship Director, Head of Finance <i>Ignition Hacks</i> 	Dec 2024 – Present <i>Toronto, ON</i>
<ul style="list-style-type: none">Raised \$10K in sponsorships from partners like Siemens, Deloitte, and UWaterloo to fund a 260-person hack.	