

# Dongwan (Jamie) Seoh

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## EDUCATION

<b>University of Waterloo</b> <i>Bachelor of Software Engineering, Honours   2 × scholarships   3 × Hackathon Winner</i>	Sep 2025 – Present <b>3.96/4.0 GPA</b>
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## EXPERIENCE

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

## PROJECTS

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

## AWARDS

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

## EXTRACURRICULAR INVOLVEMENT

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

## TECHNICAL SKILLS

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