

Deniz Jasarbasic

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denizjasarbasic.com

Skills

Languages: Java, Python, C, C++, Haskell, JavaScript, TypeScript, Go, HTML, CSS, SQL

Technologies: React, Next.js, FastAPI, AWS, Terraform, Kubernetes, Temporal, Redux, REST, PostgreSQL, Docker

Experience

Mercury

New York, NY, United States

Software Engineer Intern — worked on performance directly with a principal engineer

May 2025 – August 2025

- Made Mercury's **backend 20% faster** by eliminating duplicative work in our API routes (Honeycomb | Haskell)
- Optimized a costly query by precomputing values and rewriting joins, **reducing buffer hits 9x** (Haskell | SQL)
- Built a Slack alert system to surface costly inefficiencies, helping teams easily fix issues and sustain performance
- Created AI agent workflows that leveraged the Honeycomb MCP to automate and solve these inefficiencies faster

IBM

Ottawa, ON, Canada

Undergraduate Researcher — cybersecurity, data engineering, and ML

January 2025 – May 2025

- Built an evaluation pipeline to analyze **10K+ websites** for phishing threats in real time (Docker | Python)
- Achieved **94% detection accuracy** by leveraging LLMs for classification and contextual analysis (Watsonx.ai)
- Accelerated the **analysis process 18x** using multiprocessing, cutting runtime from hours to minutes (Python)

Solace

Remote Canada

Software Engineer Intern — infrastructure

May 2024 – August 2024

- Built a web console to streamline the management of Solace's Kubernetes infrastructure (React | TypeScript)
- Collaborated with PMs to define an MVP, system design diagrams, UI mockups (Figma), and documentation
- Features: health dashboard, cluster management, multi-cloud support (AWS, Azure, GCP), and upgrade flows
- Pitched the business value to leadership, highlighting improved stability tracking, cost visibility, and efficiency

Apple

Cupertino, CA, United States

Software Engineer Intern — devops, developer tools, and cloud

May 2023 – August 2023

- Developed a web console to help teams easily manage all of their developer resources in one place, improving infrastructure visibility, operational stability, and workflow speed (React | TypeScript | Terraform | Figma)
- Worked with teams to define current pain points and technical specs, leading to new features and optimizations

Leadership and Projects

uOttHack (Student-Led Hackathon)

Ottawa, ON, Canada

Advisor, Prev. Co-Director

September 2021 – Present

- Founded a **team of 18 students and scaled the hackathon** into [Canada's second-largest with 850+ participants](#)
- Pushed the vision, executed a **6-month roadmap**, and led sponsorship efforts—**raising \$175K** in three years

Education

Sorbonne Université

Paris, Île-de-France, France

Semester Abroad

September 2025 – January 2026

- Taking graduate courses in machine learning, quantum physics, and bioinformatics (protein & genome modeling)

University of Ottawa

Ottawa, ON, Canada

B.Sc. in Computer Science

September 2021 – January 2026

- **Coursework:** Information Retrieval, Search & LLMs, Databases I & II, Secure Scalable Systems, and Networking
- **Awards:** [Kleiner Perkins Fellowship Finalist \(2024\)](#), William Aird Ross Mathematics Scholarship (2021)