

Arnav Jain

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EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Computer Science

Graduation Date: June 2025

- **Core courses:** Object-Oriented Software Development, Data structures, Operating Systems, Algorithms, User Interfaces, Relational Database Management, Software and Systems security, Software architecture
- **Awards:** President's Scholarship of Distinction, International Excellence Scholarship

WORK EXPERIENCE

Arctic Wolf

Waterloo, ON

Software Developer Intern

October 2024 – December 2024

- Engineered **10+ endpoints** for provisioning users based on **Okta SCIM 2.0 events**, achieving **100% test coverage** through unit tests, end-to-end tests, and mock downstream services
- Developed **endpoints** to handle **1500+ requests per minute** for AuthN & AuthZ decisions, **reducing response time by ~30%**
- Implemented **Canary testing** for **M2M token** support through a Managed API Gateway, **resulting in a ~50% reduction** in authorization-related issues during production rollouts
- Created **Grafana Dashboards** to monitor key metrics, including requests per minute, AuthZ latency, and deny rate

Tata Consultancy Services

Toronto, ON

Software Developer Intern

May 2024 – August 2024

- Built a robust computer vision application leveraging depth maps, segmentation, 3D point clouds and GPT-4 Vision, achieving an accuracy rate of **~70%**.
- Shipped a comprehensive full-stack application using **React.js**, **Next.js** and **Node.js**, facilitating operations for **~1,000** internal employees.
- Implemented **RESTful APIs** for image and video uploads, leveraging **Azure Blob Storage** and **Azure Cosmos DB** for **PostgreSQL** optimizing data retrieval by **40%**

Ontario Lottery and Gaming

Toronto, ON

Software Engineer Intern

September 2023 – December 2023

- Designed and built an application, complete with an interactive dashboard, to streamline the logging and analysis by **~40%** of **Threat Risk Assessments**
- Re-modeled **Python** scripts for **Tenable Nessus Agent** to systematically detect and report the presence of Rapid7 agents on **1,200+** workstations, **optimizing** security assessment processes
- Architected and deployed a **Disaster Recovery Tracking System** using Power Automate and Power Apps, enhancing the efficiency by **~25%**

The Globe and Mail

Toronto, ON

Software Engineer Intern

January 2023 – April 2023

- Automated the **import** of **500+** manually created IAM resources into **Terraform** state by developing **Bash scripts**
- Led a successful company-wide upgrade of **AWS EKS cluster** and **Karpenter** resulting in **~ 40%** cost savings by optimizing **EC2 instance types** according to the compute load
- Delivered a comprehensive **CI/CD** architecture on **BuildKite** that effectively increased automation and **reduced** operational **Kubernetes** costs by **~55%**

Loblaw Companies Limited

Toronto, ON

Software Engineer Intern

May 2022 – August 2022

- Spearheaded the successful migration of **100+** retail stores to **Google Cloud Platform** by developing and implementing custom frameworks and **CI/CD pipelines** at scale
- Crafted a dashboard for **~1500+** internal employees that extracted real-time data from the GCP console using **Node.js** and **React.js** to efficiently monitor the status of **virtual machine (VM) instances** in the cloud.
- Created a set of reusable **Terraform** templates that expedited the setup of **VPCs, MIGs, and ILBs** for over **100** retail stores; boosted overall project delivery speed

PROJECTS

[Beacon](#) | *Kotlin, TypeScript, NestJs, MongoDB, Geocode API*

- Devised an **Android** app that facilitates real-time connections between users seeking assistance with basic tasks and nearby helpers, enhancing local community engagement.
- Scaled the app with a robust backend using **TypeScript**, **NestJs** framework, **MongoDB** database and a **Kotlin** frontend

[SPshORTS](#) | *Node.js, React, Python, Flask, Huggingface*

- A sports news app which **web scrapes** sports articles from various news sites and **summarizes** them into a 60-word article
- A **text-summarization tool** using the **facebook/bart-large-cnn** model with a Node.js backend and React frontend

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, TypeScript, GoLang, Rust, Kotlin, Java, SQL, NoSQL
- **Frameworks:** Node.js, React, Angular, NestJS, Next.js, PyTorch, scikit-learn, Huggingface
- **Tools:** Docker, Helm, Kubernetes, Terraform, MongoDB, Git, Microsoft Power Apps, Firebase
- **Certifications:** AZ-900, AI-900