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, Software and Systems security, Software architecture, Distributed Systems, Computer Networks
- *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** in **Go** for provisioning users based on **Okta SCIM 2.0 events**, achieving **100% test coverage**
- Developed **endpoints** to handle **1500+ requests per minute** for authentication & authorization decisions
- Implemented **Canary testing** for **M2M tokens** support through a Managed API Gateway, **resulting in a ~20% reduction** in authorization-related issues
- Created **Grafana Dashboards** and **Prometheus alerts** to monitor key metrics, including requests per minute and authorization deny rate

Tata Consultancy Services **Toronto, ON**
Full Stack Engineer Intern *May 2024 – August 2024*

- Improved internal user-interfaces used by ~**20,000** employees using **React** and **CSS,** increasing user engagement by **30%**
- Implemented **RESTful APIs** to handle **1000+ requests** for image and video uploads, leveraging **Azure Blob Storage** and **PostgreSQL**
- Reduced server-side load by **~20%** by using **caching**, **database normalization** and **compressing images**

Ontario Lottery and Gaming **Toronto, ON**
Software Engineer Intern *September 2023 – December 2023*

- Built a **next.js** application to streamline the logging and analysis of **Threat Risk Assessments** by **~40%**
- Wrote **Python** scripts to automate Tenable Nessus Agent deployment, scanning, and result retrieval for **1000+ remote endpoints**, improving observability by **20%**
- Collaborated to deploy 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 generated IAM resources into **Terraform** state by developing **Bash scripts**
- Coordinated with the development teams to implement CI/CD pipelines using **BuildKite** resulting in **30% faster** deployment times
- 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

Loblaw Companies Limited **Toronto, ON**
Software Engineer Intern *May 2022 – August 2022*

- Assisted in the migration of **100+** retail stores to **Google Cloud Platform** using **Docker** and **Kubernetes**
- Crafted a dashboard using **Node.js** and **React** for **~1500+** internal employees that extracted real-time data from the GCP console to monitor the status of **virtual machines** in the cloud.
- Produced a set of **Terraform** templates that expedited the setup of **VPCs, MIGs, and ILBs** for **100+** retail stores

PROJECTS

Beacon | *Kotlin, TypeScript, NestJs, MongoDB, Geocode API*

- An **Android** app that facilitates real-time connections between users seeking assistance with basic tasks and nearby helpers
- 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 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

Simple Ad Exchange Platform | OpenRTB, Go, PostgreSQL, Redis

- A basic ad exchange platform built in **Go** that connects publishers and advertisers implementing the **OpenRTB** protocol
- Integrated **Redis** for bid-request handling and **PostgreSQL** for storing auction data

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