# Arnav Jain

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## EDUCATION

**University of Waterloo**                                                                                              **Waterloo, ON**
*Bachelor of Computer Science, Business Specialization (Honors Co-op)*                     *Graduation Date: June 2025*
- *Core courses*: Distributed Systems, Computer Networks, Object-Oriented Software Development, Data structures, Operating Systems, Algorithms, 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** in **Go** for provisioning users via **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 2+ **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*
- Revamped **React**-based internal UIs for **20,000+** employees, boosting user engagement by **30%** through enhanced usability and design
- Maintained **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**, restructuring schema for **database normalization** and **compressing images**

**Ontario Lottery and Gaming**                                                                                   **Toronto, ON**
*Software Engineer Intern*                                                                  *September 2023 – December 2023*
- Built a **Next.js** application that streamlined Threat Risk Assessment logging and analysis, **reducing** manual effort by **40%**
- Automated **Tenable Nessus Agent** deployment and result retrieval for **1,000+ endpoints** with Python, increasing 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 AWS EKS cluster and **Karpenter** upgrade, optimizing EC2 instance types and achieving **40% infrastructure cost savings**

**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.
- Created **Terraform** templates to **automate** VPC, MIG, and ILB setup, expediting cloud infrastructure provisioning for **100+ stores**

## PROJECTS

[Beacon](#) | *Kotlin, TypeScript, NestJs, MongoDB, Geocode API*
- Developed an Android app that facilitates real-time connections between users seeking assistance with basic tasks and nearby helpers, featuring a robust backend built with **TypeScript**, **NestJS** and **MongoDB**

[SPshORTS](#) | *Node.js, React, Python, Flask, Huggingface*
- Devised a sports news app that web scrapes articles from various sites and summarizes them into 60-word stories using a text-summarization tool powered by the **facebook/bart-large-cnn model.**

[CoinVoy](#) | TypeScript, nodejs, Plaid API, React Native, express, MongoDB
- Implemented intuitive dashboards and real-time data updates in a **React Native** application utilizing the **Plaid API**, enabling users to track and analyze their daily, weekly and monthly spending habits

## 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