GURANSH SINGH

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Education

University of Toronto **Sep. 2022 – Present**
Computer Science Specialist, Stats Minor *Toronto, Ontario*
- 3x **Dean's List Scholar**, AWS Hackathon Winner and Innis College Exceptional Achievement Award.
- **Relevant Coursework** DSA, Software Design, Data Analysis, Systems Programming, Operating Systems, Databases, Machine Learning, Linear Algebra, Multivariable Calculus, Computer Architecture

Technical Skills

Languages: Python, Java, C/C++, Bash, Javascript, SQL, MIPS Assembly
Certifications: Hashicorp Terraform Associate
Frameworks/Tools: AWS, Linux, Windows, GitHub, BitBucket, React, Jenkins, Tensorflow, Pytorch, Docker, Grafana, Pandas, Numpy, Github Actions, Azure, Terraform

Experience

Software Developer Intern **September 2025 – Present**
Mackenzie Investments *Toronto, Ontario*
- Scheduled to work with **Python, Django, Pandas, Numpy, Scipy, Quantpy, SQL**

Software Developer Intern **June 2025 – August 2025**
CGI - BMO *Toronto, Ontario*
- Developed and maintained backend services using **TypeScript** on **AWS Lambda**.
- Delivered over **20+ pull requests**, improving code quality and feature velocity in a fast-paced Agile environment.
- Prototyping an **agentic AI** system using **LangChain**, **LangGraph**, expediting internal POC development by **50%**

Software Engineer **December 2024 – May 2025**
Sikh Sparks (Volunteer) *Toronto, Ontario*
- Developed scalable REST APIs with **Java Spring Boot** and designed comprehensive data models and schema design.
- Provisioned and managed scalable cloud infrastructure on **Azure** using **Terraform**, automating deployments.
- Implemented Google OAuth via Keycloak for authentication and **Dockerized** microservices for scalable deployments.

Software Engineer **January 2025 – April 2025**
Alfina Technology (Part-Time) *Toronto, Ontario*
- Led a team of 7 developers to design and build a web & mobile application using **Next.js**, **React**, and **TypeScript**
- Built **Python**/**Polars** backend to compute HHI for daily market concentration, cutting analysis time by **75%**.
- Implemented secure authentication using **OAuth** and **Firebase**, with session persistence via **HTTP-only cookies**.

Software Developer Intern **May 2024 – September 2024**
CGI - CIBC *Toronto, Ontario*
- Contributed to 25+ PRs on a **Node.js** microservices project; led code reviews in agile **BitBucket** workflow.
- Built a server monitoring tool with **Prometheus**/**Grafana** to find memory leaks, cutting system downtime by **30%**.
- Created **Python** POC simulator, automating test data to boost test speed by **40%** and save **20 hrs/week**.

Software Developer Intern **May 2023 – September 2023**
CGI - CIBC *Toronto, Ontario*
- Devised and implemented large-scale **data processing** pipelines in **Python**, reducing analysis time by over **99%**.
- Designed an ID management system to optimize script workflows, cutting new engineer onboarding time by **30%**.
- Collaborated on audit preparation, ensuring **100% compliance** and enhancing process reliability.

Projects

Eventuary (AWS Hackathon Winner) | *Python, REST API, AWS, React, Next.js* ⭘
- Developed a platform to help university students discover events using tailored recommendations with **85% accuracy**.
- Leveraged **AWS services** (Lambda, API Gateway, DynamoDB, Bedrock, Kendra, Cognito) to create a scalable, serverless backend infrastructure for event recommendations, integrating AI-based search and user authentication.
- Designed an interactive and responsive frontend using **Vite/React**, ensuring a seamless user experience.

TalentVista | *Java, REST API, Clean Architecture, JUnit, JavaSwing* ⭘
- Engineered a desktop application for resume parsing and HR recruitment management.
- Implemented successful implementation of **observer, builder,** and **façade design patterns** within the framework of **Clean Architecture**, achieving a **30% enhancement** in scalability, maintainability, and system performance.
- Developed extensive JUnit tests covering **95%** of code lines to enforce robustness and facilitate seamless updates.