

# Gurvir Singh

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Full Stack Software Engineer with 1+ year of experience developing scalable applications and APIs using JavaScript, Node.js, React, and AWS. Strong background in microservices, CI/CD pipelines, and Agile methodologies. Adept at building reliable cloud-based systems, debugging production issues, and collaborating cross-functionally

## EDUCATION

### Honours Bachelor of Computer Science

Completed Dec. 2024

Trent University (Oshawa, ON) - **91.85% GPA**; President's Honour Roll; Dean's Honour Roll

### Ontario Advanced Diploma in Software Engineering Technology (Co-op)

Jan. 2020 - Dec. 2022

Centennial College (Scarborough, ON) - **4.3/4.5 GPA** - High Honours

## WORK EXPERIENCE

### Software Engineer Intern (Co-op)

Sep. – Dec. 2021 & May – Aug. 2022 & 2023

Pearson Canada (Toronto, ON)

- Developed RESTful APIs using Node.js & Express, enhancing system uptime by 20%.
- Built internal tooling dashboards using HTML, CSS, JavaScript, improving observability and security traceability.
- Participated in Agile ceremonies including daily stand-ups, sprint planning, and retrospectives.
- Documented workflows, wrote unit tests, and managed code via Git, Bitbucket, and Jira.
- Led bug triage sessions, resolving 40+ issues across environments.

### IT Help-Desk Support (Co-op)

Jan. 2021 – Apr. 2021

Centennial College (Scarborough, ON)

- Diagnosed and resolved end-user hardware/software issues, escalating tickets as needed.
- Maintained and configured systems, ensuring consistent IT performance across departments.

## TECHNICAL SKILLS

**Languages & Frameworks:** Java, C#, .NET, Python, JavaScript, React, Node.js, Express, Flask

**Web & Database:** HTML, CSS, RESTful APIs, Firebase, MongoDB, Microsoft SQL Server, NoSQL, PostgreSQL

**Cloud/DevOps:** AWS (RDS, S3, Dynamo DB, IAM, ECS), Azure, Docker, CI/CD Pipelines

**Tools & Testing:** Git, GitHub, Bitbucket, Jira, Confluence, Visual Studio, Power BI, Postman, Jest

**Practices:** Agile, Scrum, Microservices Architecture, OOP, SDLC, Unit Testing, Debugging, Code Reviews, Data Structures and Algorithms, System Design

## PROJECTS ([Portfolio](#))

**Movie Planet** (ASP.NET MVC, C#, AWS, Docker) - Designed **.NET**-based microservices deployed via **Docker** and **AWS Elastic Beanstalk**. Configured **AWS IAM** roles and policies. Created a scalable web application using **ASP.NET MVC** and **C#**, integrating **AWS RDS** and implementing full **CRUD** functionality. Applied **OOP** principles for user interaction features such as rating, commenting, and media. Integrated unit tests to validate **API** functionality and business logic.

**CinePrime** (MongoDB, Express, React, Node.js) - Built a full-stack movie discovery app using the **MERN** stack and The Movie Database (TMDB) API. Implemented user authentication with **JWT** and **Express**, managed watchlists using **MongoDB**, and built a responsive frontend with **React** and **Axios**. Enabled user interaction through review and comment functionality.

**Toronto Bicycle Theft Predictive Model** (Python, Flask, ML, Power BI) - Built and deployed a predictive model using **Python** (**Scikit-learn**, **Pandas**, **NumPy**) on Toronto Police open data. Evaluated using **confusion matrix** and **ROC**; deployed REST API via Flask and tested endpoints with Postman. Designed **Power BI** dashboards. Achieved 78% **model accuracy** and improved runtime by optimizing preprocessing pipelines.