

GUNEET BOLA

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Education

University of Waterloo

Sep. 2020 - Apr. 2025 (Expected)

Bachelors of Computer Science (Honours) with Business Specialization

83% average

Relevant Coursework: Object-Oriented Development, Data Structure & Algorithms, Databases (SQL), Operating Systems

Technical Skills

Languages: Python, C++, C, C#, JavaScript, TypeScript, SQL, Kotlin, HTML5, CSS

Frameworks: React.js, Flask, JavaFX, Angular.js, Bootstrap

Tools and Technologies: Git, AWS, Azure, MongoDB, Kubernetes, Studio3T, Postman, Jenkins, Jira, GitHub, Figma

Work Experience

Microsoft

May 2024 - Aug. 2024

Software Engineer Intern

Redmond, Washington

- Utilizing **.Net** and **SAP** to optimize the management and parsing of all Microsoft financial records on **Azure**.
- Designing and enhancing automated testing processes using **Python** to ensure software reliability and efficiency.

Ansys Inc.

Sept. 2023 - Dec. 2023

Software Engineer Intern

Waterloo, Ontario

- Developed **7+ backend REST APIs** for e-commerce transactions as well as improved the current codebase using inheritance and abstraction, achieving 20% less maintenance time and 30% more code reusability.
- Designed pipeline infrastructures using **Azure task groups and Kubernetes**, boosting deployment efficiency by 15%.
- Eradicated 80% of potential website downtime by creating and deploying an **Azure Traffic Manager** to implement site traffic management and reroute users according to region and network latency
- Facilitated a 20% reduction in debugging time by enhancing regression testing and creating in-depth documentation using **JavaScript and Azure pipelines**, detailing both the implementation and the specific objectives of each test.

Trend Micro

Jan. 2023 - Apr. 2023

Software Engineer Intern - SRE Team

Ottawa, Ontario

- Optimized existing repositories to deploy with Trend Micro's Atlas pipeline using **node packages, yaml files, and CloudFormation templates** which increases future deployment efficiency by 30%.
- Resolved 20+ defects by analysing **Jenkins logs of CI/CD pipelines**, including amending the cleanup jobs of multiple repositories after build failure, which reduced the number of stale CloudFormation by 50%.
- Automated **DynamoDB** tables to use the AWS Backup service for integral data storage of 1000+ tables for **Disaster Recovery** which improved developer satisfaction by 20%.

BDO Canada LLP.

May 2022 - Aug. 2022

Full-Stack Engineer Intern

Oakville, Ontario

- Utilized the **.Net Tech Stack (C#), Angular.js, REST APIs, and SQL** to translate client's business requirements into 20+ dynamic, full-stack web application features which will be used by **1000+ users** daily.
- Resolved 70+ defects which reduced program crashes by 40% by leveraging **Swagger UI** and **unit test** feedback.
- Managed a **SQL relational database** comprising 40+ tables and 20+ stored procedures, improving efficiency in data retrieval and updates for user information processing.

University of Waterloo

May 2021 - Aug. 2021

Software Engineer Intern

Waterloo, Ontario

- Developed and optimized 30+ responsive course features to improve participation and redesign the virtual educational experience for **1000+ students** using **JavaScript**.
- Conducted and analysed **20+ user-tests** while integrating website enhancement recommendations which improved UI/UX and increased student satisfaction rate by 20%.

Projects

Artist Search | [🌐](#) | *React.js, REST API, HTML, CSS, Bootstrap*

- Utilized the **Spotify REST API** to develop a search engine with the ability to search **100,000+ musicians**.
- Provided **30+ users** with the ability to access all musicians' information and listen to their top tracks on one platform.

Clarity | [🌐](#) [🌐](#) | *Kotlin*

- Developed an **Android** application to aid users to overcome speech impediments by providing in-depth data analysis.
- Leveraged the **Microsoft Speech API** to accurately analyze user speech input with correct pronunciation within **2 seconds** as well as simplified frontend and backend connection through a **SDK** and **client-server architecture**.