

# Krishna Patel

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## EDUCATION

### University of Toronto

*Bachelor of Applied Science in Computer Engineering*

Toronto, Canada

Sep. 2020 – Present

## EXPERIENCE

### Software Engineer Intern

May 2023 – Aug 2023

*Microsoft*

*Redmond, WA*

- Developed stored procedures in SQL Server to efficiently collect deployment data and calculate predictions using historical data heuristics
- Created REST APIs to retrieve data from the database and interact with the stored procedures, ensuring seamless data access and manipulation
- Implemented a scheduled web job to compute deployment predictions at regular intervals, leveraging API calls and storing snapshots in Azure Blob Storage
- Conducted comprehensive testing, including DAO layer testing, client integration testing, as well as unit and functional tests, to ensure the reliability and accuracy of the code
- Designed and developed a PowerShell cmdlet, enabling users to easily query deployment prediction data, enhancing user accessibility and data retrieval efficiency

### Explore Intern (Software Engineer + Program Manager)

May. 2022 – Aug 2022

*Microsoft*

*Redmond, WA (Remote)*

- Collaborated on a project to seamlessly integrate a widget into an established website, providing users with real-time deployment data.
- Utilized database operations and API calls to efficiently retrieve and present data on the user interface
- Authored a comprehensive design document, created engaging UI designs, and facilitated a productive design review to gather valuable feedback
- Leveraged the project management tool Trello to streamline task tracking and assignment, ensuring the successful completion of project milestones

### Software Engineer Intern

May 2021 – Aug 2021

*Avolta*

*Toronto, ON*

- Engaged in the complete software development life cycle, from initial specification to the successful deployment of the final product
- Developed an RSA algorithm cryptography project using the C# programming language, enhancing data security and encryption
- Demonstrated proficiency in utilizing essential development tools, including Git and Azure DevOps, to streamline collaboration and version control
- Assisted the development team by meticulously preparing and submitting reports and documentation, ensuring clear communication and knowledge sharing among team members

## PROJECTS

### AI Vegetable Classification Recipe Search | *Python*

January 2023 – April 2023

- Collaborated with three peers on a CNN-based vegetable recipe classification project, enhancing user experience with personalized recipe suggestions from input images
- Integrated a comprehensive vegetable recipe and nutritional database, forming the basis for data-driven recommendations
- Trained a CNN and AlexNet model for precise vegetable image classification and recipe database querying
- Achieved a remarkable 14% accuracy boost over a Random Forest baseline model through rigorous model evaluation, affirming the efficacy of the CNN approach

## TECHNICAL SKILLS

**Languages:** Assembly, C, C++, C#, MATLAB, Python, SQL (Postgres, SQL Server), Verilog

**Frameworks:** ASP.Net, Bootstrap, Moq

**Developer Tools:** Git, Google Cloud Platform, VS Code, Visual Studio, Netbeans, Codelite

**Libraries:** pandas, NumPy, Matplotlib