

# Harsh Kuddu

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## EDUCATION

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### Bachelor of Science in Computer Science

Sept 2021 – Apr 2025

York University | Lassonde School of Engineering

Toronto, ON

**Relevant Courses:** Software Tools (C), Advanced OOP (Java), Computer Organization, Algorithms

## EXPERIENCE

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### Software Engineer Intern

May 2023 – Dec 2023

Evertz Microsystems

Hybrid

- Designed and implemented a **System and Diagnostic** page using **Angular** and **Typescript**, resulting in improvement in error detection
- Gathered UI data for **Observability**, enhancing **monitoring** and **analysis capabilities** by integration with **Honeycomb**
- Implemented/debugged various **UI** features and components, gaining insight on **trunk-based development** and **design patterns**
- Contributed to the development of a **caption file viewer**, using **NgRx** (Redux pattern) to efficiently manage and retrieve caption files from **AWS S3**
- Leveraged **Rxjs** to swiftly resolve **high-priority tickets**, enhancing application stability and overall user experience.
- Collaborated with **cross-functional teams**, designing UI docs, iterating based on team feedback

## PROJECTS

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### Chess | JavaScript, Reactjs, Nodejs, Expressjs, EJS, MongoDB

- Created a chess application, utilising **Reactjs**'s dynamic rendering capabilities
- Designed concise **algorithms** that maintain and enforce different **chess rules**
- Implemented a **replay system** that allows users to look at their past games with **MongoDB**

### Credit Score Model | Python, Scikit-Learn, Pandas, Numpy, Matplotlib

- Developed Credit Score Classification model for assessing creditworthiness and risk management
- Preprocessed dataset, handling missing values and encoding categorical variables.
- Employed 3 machine learning pipelines with the **scikit-learn** achieving a **78%** accuracy rate
- Presented insights and conclusions on model performance and implications for credit scoring.

### ICalendar Extension | JavaScript, Python, AWS

- Designed a Chrome Extension that converts a web calendar to **iCal** format using **AWS Lambda** and **API Gateway**
- Utilized **accessible** and **scalable** nature of **AWS S3** for iCal file sharing
- Simplified deployment and management through **AWS SAM**'s Infrastructure as Code (**IaC**) capabilities.

### York API | Python, Selenium, Flask

- Designed and developed a **RESTful API** using **Flask** to serve course, food, and general information.
- Engineered an web scraping solution using **Selenium** to collect up-to-date course and food information from York University's websites

### Mood Playlist Selector | TypeScript, Python, Reactjs, Flask

- Developed an application enabling Spotify users to select songs from their playlists tailored to their current mood
- Successfully addresses the issue of finding the right song, achieving a **60% prediction** accuracy rate.
- Seamlessly integrated external APIs such as **Cohere**, **Spotify**, and **Genius**.

## SKILLS

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**Languages:** Java, TypeScript, Javascript, Python, C

**Frameworks/Libraries:** Angular, Reactjs, RxJS, NgRx, Express.js, JUnit Testing

**Tools:** Eclipse, IntelliJ, Visual Studio Code, Android Studio, Git