# SAIKRISHNA TADEPALLI

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#### **EDUCATION**

#### **University of Waterloo**

Sept. 2020 - May 2025

Bachelor of Computer Science and Financial Management

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming & System Design, Functional Programming

#### SKILLS

Languages: C#, C/C++, GraphQL, HTML/CSS, Java, JavaScript, Python, TypeScript, Unix-BASH Tools: AWS, Azure, Express.JS, Git, MongoDB, Node.JS, Pandas, React, React Native, Unity

#### **EXPERIENCE**

#### Foodie · Software Engineer, Intern

Toronto, Ontario

Sept. 2022 - Dec. 2022

- Developing an app in React Native for foodies to review, share, and discover restaurants
- Enabled users to share restaurants and recommendations over several social media platforms including Instagram, and Twitter
- Implemented real-time searching and filtering of restaurants, a feature requested by over 80% of users, using Algolia search engine
- Utilized AWS Lambda to send users push notifications that update them on new social activity, increasing engagement by 30%

Technologies: JavaScript, TypeScript, React Native, Redux, AWS Amplify, AWS Lambda, AWS Cognito, DynamoDB

# Huawei Technologies · Software Engineer, Intern

Toronto, Ontario

Jan. 2022 - Aug. 2022

- Expanded the capabilities of MindSpore, an Al computing Framework, by implementing distributed DataFrame APIs in Python and C++
- Achieved up to 80% increased speed in creating a parallelized DataFrame object from a CSV file by developing a distributed FastReadCSV API
- Implemented a unit testing suite and data infrastructure that measures DataFrame API correctness and performance using Pandas Testing Library and Numpy Testing Library

Technologies: C, C++, Python, Pandas, Numpy

#### LeapThought NZ · Software Engineer, Intern

May 2021 - Aug. 2021

- Toronto, Ontario
- - Improved speed of fetching & displaying JSON data by 15% using ASP.NET web APIs in React and refactoring 30+ SQL queries
  - Introduced inline email feature, now used by over 20 organizations, with React, SharePoint APIs, and C# SmtpClient class
  - Reduced downtime by 45% and scope for human errors by 20% by automating mass data transfer between SharePoint sites with SharePoint **Online Management Shell**
  - Leveraged PowerShell to query for data above SharePoint's query threshold without increasing the limit, improving site performance by 80%

Technologies: JavaScript, Java, C#, SQL, React, ASP.Net, Microsoft SharePoint, Microsoft PowerShell

## **PROJECTS**

#### Member

- Developed a scalable mobile app that allows university students to access club services and allows clubs to manage their operations
- Implemented GraphQL APIs in NodeJS to store data in MongoDB and support operations related to Clubs, Users, Memberships, Auth, and
- Used Apollo Client to connect the front-end React Native app to the backend, hosted on an AWS EC2 instance

Technologies: JavaScript, TypeScript, Node.Js, Express.Js, GraphQL, MongoDB, React Native, AWS EC2

#### **Artificial Light Detection and Mapping**

- Collaborated with a team of 4 to engineer a photometer to measure ambient light levels using an Arduino Uno, photoresistors, and proximity
- Wrote Arduino and Python scripts to collect and analyze data received from photometer over a 3-month period
- Achieved 35% reduced net light usage and installation of dimmers + sectional lights in 15 classes by presenting collected data

Technologies: Arduino, C/C++, Python, Linux, BASH

# **ACTIVITIES**

### **UW Data Science Club** · VP of External Affairs

Sept. 2021 - Current

- Led a team of 7 in organizing 2 Hackathons, 6 Info Sessions, and 10+ Networking Events with companies such as Meta and Google
- Delegated tasks to the EA team resulting in 3 sponsors and 20+ speakers joining club events
- Organized and mentored E-LeetCoding events, aiding over 45 students to prepare for technical interviews