

# DEA CHAUDHERY

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## EDUCATION

University of Waterloo, Bachelor of Computer Science

Sept 2019 - April 2023

- **Coursework:** Data Structures and Algorithms, Operating Systems, Object-Oriented Programming, Databases
- **Awards:** Fall 2020, Spring 2021, Fall 2021 Term Distinction  
University of Waterloo President's Scholarship

## SKILLS

**Programming Languages:** Python, C, C++, Java, JavaScript, TypeScript, SQL, Dart

**Tools and Frameworks:** Node, Express, Flutter, React, Redux, Jest, Django, MongoDB, GraphQL, Git, Docker, AWS

## EXPERIENCE

HomeX | **Software Engineer Intern**

Chicago, IL

Jan 2022 - Present

- Developed **typescript** and **GraphQL backend** that allows technicians to apply coupon codes to customer invoice
- Developed functionality to perform cross-collection **MongoDB queries** to dynamically update employee availability status
- Increased code coverage by **10%** by adding **unit and integration testing** for API endpoints using **jest**

Filament AI | **Software Developer Intern**

Toronto, ON

Jan 2021 - April 2021

- Increased the number of users by **35%** per month by building **API integrated with** Twilio SendGrid to facilitate chatbot communication between patient and nurse
- Designed and developed fully customizable, dynamic **React/Redux** components with **SQL and Express API** backend to analyze company financial metrics with **100%** accurate calculations for hedge fund client
- Deployed web applications to **AWS EC2** instances for cloud hosting

Interac Corp | **Software Developer Intern**

Toronto, ON

May 2020 - Aug 2020

- Developed **REST endpoints** to generate **QR payment** capabilities through Interac eTransfer API for web app
- Ported and integrated web application into **mobile interface** using **Ionic Framework** enabling rich mobile experience and cross platform compatibility
- Developed and launched **Flutter mobile** application to extend functionality of QR payments for Merchant and Buyer. Allowed merchants to create **2x** more separate business profiles than before
- Optimized **SQL** queries to reduce customer data retrieval time by **40% (AWS RDS)**

## PROJECTS

**Spectrum Vision** (Winner HackThe6ix) – Helping the visually and hearing impaired 🦻

- Developed an imaging recognition system with **Microsoft Azure's Vision API** to translate sign language
- Designed a caretaker dashboard using **Django** and **REST** framework

**Settlers of Catan** 🦻

- Implemented multiplayer board game purely in **C++** adhering to **OOP principles**
- Adeptly uses **design patterns to save state of the game and allow players to make next moves**

**Coronavirus Chatbot** – Answers Covid related questions 🦻

- Built using **Flask** and the **Chatterbot** library