

# SOORAJ ARAKKAL

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## EDUCATION

### University of Alberta

Sep 2018 – May 2023

- **Major:** Computing Science, B. Sc.
- **Dean's Honor Roll:** For 2018 – 2019, 2019 – 2020 academic years.
- **Undergraduate Scholarship for academic excellence:** 2019-2020.

## EMPLOYMENT

### Amazon

May 2022 – Aug 2022

#### Software Development Engineer Intern

- Created a website allowing clients to define and manage customer cohorts, facilitating personalized recommendations.
- Engineered API endpoints for handling CRUD requests saving 36,000 hours and \$1.6 million annually.
- Implemented authentication, authorization, and input validation to ensure app security and robustness.
- Collaborated with colleagues to ensure client requirements were met, assuming full ownership of the project from initial design to successful implementation.

### Interface Fluidics Limited

Sep 2021 – Apr 2022

#### Computer Science Co-op

- Refactored GraphQL queries resulting in 7500% faster data access time.
- Revised existing image analysis module which decreased task completion time by 500% and mouse clicks by half.
- Created an algorithm in python to numerically sort (using regex) and stack images from the database.
- Developed an algorithm to convert images into video using Python and FFmpeg.

### Sparrow Lending PBC.

May – Jun 2021

#### Full-Stack Software Developer

- Wrote backend code that handled external HTTP requests from third party endpoints.
- Commended for clear communication and unparalleled willingness to learn.
- Gained experience in AWS Lambda, DynamoDB, GraphQL, and styling in CSS using Bulma.io.

### University of Alberta

Jan – Apr 2021

#### Undergraduate Teaching Assistant – Course: Formal Systems and Logic

- Assisted professor in setting the difficulty of the course, grading student assignments, and replying to queries.
- Gave 200 students detailed midterm feedback which contributed to 10% higher average marks in final exam.
- Learned how to effectively manage time between a full course load and working a part-time job.

## PROJECTS

### Vocabulary Explorer ([Screencast](#))

- Developed a website that generates interactive word graphs based on Cree words and their domains.
- Reduced graph load times from 10 to 0.5 seconds using the lazy loading design pattern.
- Implemented Continuous Integration/Continuous Deployment (CI/CD) pipelines to streamline the development process, enabling efficient code deployment and version control.
- Incorporated Jest for unit testing and Cypress for E2E testing, elevating code quality and system reliability.
- **Utilized:** React, d3js, MUI, Jest, Cypress

### Alzheimer's Calgary ([GitHub](#)) (work in progress) (Open-Source Project)

- A free app for the Alzheimer's Calgary foundation to be used for scheduling and digitizing patient records.
- Produced a software design document based on client needs, budget, and user demographic.
- Prepared onboarding documents for new developers and created tickets for them to work on.

## TECHNICAL SKILLS

- **Proficient:** Python, R, JavaScript, Java, C++, SQL, GraphQL, AWS, React, Excel, VBA.
- **Familiar:** Rust, GCP, Prolog, Lisp, Flutter.