

SOORAJ ARAKKAL

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EDUCATION

University of Alberta

Sep 2018 – May 2023

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

EMPLOYMENT

Amazon (Prime)

May 2022 – Aug 2022

Software Development Engineer Intern

- Developed a service that allows clients to define customer cohorts used for product recommendations.
- Wrote API specifications using Smithy and Java and deployed them using AWS Lambda and API Gateway.
- Designed a dashboard using React and TypeScript for external clients to interact with API endpoints.
- Implemented authentication and input validation to ensure app robustness and security.

Interface Fluidics Limited

Sep 2021 – Apr 2022

Computer Science Co-op

- Refactored GraphQL queries resulting in 7500% faster data access time using virtualization and pagination.
- Updated image analysis UI 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 2021 – 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 2021 – 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.

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 (CI/CD) pipelines to streamline the development process, enabling efficient code deployment.
- Incorporated Jest for unit testing and Cypress for E2E testing, elevating code quality and system reliability.
- **Utilized:** React, d3js, MUI, Jest, Cypress

University Discord Bot ([GitHub](#))

- Founder of open-source discord bot used to answer FAQs for 6500+ member server.
- Built CI/CD infrastructure enabling students to contribute easily and to allow the bot to stay relevant.
- **Utilized:** Python, GitHub-Actions, AWS EC2

MobiLibrary ([GitHub](#))

- Developed an Android app using Java. 6-member team. Allows users to lend and borrow books.
- **Utilized:** Java, Figma, Github, TravisCI, Firebase

TECHNICAL SKILLS

Proficient: Python, R, JavaScript, Java, C++, SQL, GraphQL, AWS, React, Excel, VBA.

Familiar: Rust, GCP, Prolog, Lisp, Flutter.