

# SUJAL BOLIA

## EDUCATION

**University of British Columbia, Vancouver, BC**

Bachelor of Science (Computer Science) | 2024

## WORK EXPERIENCE

**Software Engineer Intern | Microsoft**

**May–August 2022**

Virtual internship under mentorship of Dr. Manoj Chinnakotla

- Developed Discord bot in Rust to host text-based Werewolf games using Discord API
- Converted Markdown input into HTML and used wkhtmltopdf to convert the HTML into PDF
- Used Fandom API to search for wiki articles, parsing raw REST responses

**Software Engineer Intern | Microsoft**

**May–August 2021**

Virtual internship under mentorship of Dr. Manoj Chinnakotla

- Developed command-line tool to extract images from compressed assets
- Optimized code by parallelizing performance-sensitive routines and removing unnecessary cloning, gaining a 10x speed improvement over existing tools

## PROJECTS

**peerAdvice (hackathon)**

**Jan 2023**

- Designed website to connect years 1 & 2 UBC students with years 3 & 4 students to provide peer-to-peer advice, using Python library Flask
- Integrated Firebase auth and Calendly calendars to improve user experience
- Worked in team of 4 to create the project in less than 24 hours for nwHacks 2023

**Course Explorer (Course Project)**

**Apr 2023**

- Created API server in TypeScript allowing users to add and query school course data
- Designed Discord bot frontend in TypeScript to view the data on Discord

**serenity-utils**

**Aug 2020–Jul 2022**

- Developed an asynchronous Rust library to offer utility functions supplementing the serenity-rs Discord API library
- Ensured robustness and reliability by implementing a comprehensive unit testing

**wordle-cli**

**Dec 2022**

- Wrote a clone of the word game Wordle in Rust with a terminal-based user interface
- Allowed users to supply their own list of words and guesses as JSON files
- Parsed user configuration options & previous results to keep track of their progress

## VOLUNTEER EXPERIENCE

**Rotary Club, Udaipur, India**

**Jul 2017–Jan 2020**

- In a team of 4, coordinated Rotary Club service projects such as blood donation camps and education awareness drives

## SKILLS

Rust, Python, TypeScript, Java, C, C++, C#, .NET, Go, PostgreSQL, MySQL, Oracle, MongoDB, Redis, MATLAB, R, Visual Studio Code, IntelliJ, GDB/LLDB, JUnit, Mocha, HTML, CSS, JavaScript, React, NodeJS, PHP, Flask, AWS, Azure, DynamoDB, Docker, Kubernetes, ETL, ELT, Spark, Kafka, Mesos, GraphX, Full Stack