

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

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

- **Programming Languages:** Rust, Python, TypeScript, Java, C, C++, C#, Go
- **Databases:** PostgreSQL, MySQL, Oracle, MongoDB
- **Software:** MATLAB, R, Visual Studio Code, IntelliJ
- **Testing:** GDB/LLDB, JUnit, Mocha
- **Web:** HTML, CSS, JavaScript, PHP, Flask
- **Cloud & Containerization:** AWS, Azure, Docker, Kubernetes
- **Big Data:** ETL, ELT, Spark, Kafka, Mesos, GraphX