Avish Parmar

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Education

Stony Brook University   Stony Brook, New York
B.S. in Computer Science, Graduated May 2023   *Specialization in Artificial Intelligence & Data Science*
- Dean's List (2019-2023)
- One of four star students recognized in the College of Engineering and Applied Science Dean's State of the College Address (2022)
- Won CEAS Most Improved Organization for Stony Brook Computing Society (2022)

Relevant Coursework:

- **Introduction to Object Oriented Programming**
- **Data Structures and Algorithms**
- **Discrete Mathematics**
- **Introduction to the Theory of Computation**
- **Artificial Intelligence**
- **Analysis of Algorithms**
- **Big Data Analytics (Graduate Course)**
- **Virtual Reality (Graduate Course)**
- **Introduction to Linear Algebra**
- **Probability and Statistics**
- **Finite Mathematical Structures**
- **Fundamentals of Software Development**
- **Natural Language Processing**
- **Machine Learning**
- **Computer Networks**

Work Experience

Google   Mountain View, CA
Developer Programs Engineer Intern   May 2022 – August 2022
- Migrated the Universal Android Media Player (UAMP), a media app with over 12.6k stars and 3.6k forks, to Media3 and added spatial audio features ahead of the Android 13 release making it an app showcasing modern app development (MAD) principles
- Converted UAMP to Compose, a modern UI toolkit for android development, to serve as the go-to media use case for developers transitioning media apps to Compose
- Published a technical blog post on Medium.com showcasing what I had learnt from my experience in migrating UAMP and showcasing my findings, such as limitations of Jetpack Compose, the inner workings of Jetpack libraries and Spatial Audio, and a step-by-step guide in recreating such a media app.

Research Experience

Department of Computer Science   Stony Brook, NY
Undergraduate Research Assistant   August 2022 – February 2023
- Conducted research on the Language & AI Research (LAIR) group under Dr. Ritwik Banerjee on an Information Distortion Project
- Created a natural language processing model to detect distortions (exaggeration/meiosis) of news headlines
- Further analyzed the effect of the distortions on human emotion and the bias of news providers

Vertically Integrated Projects Team – Tech Businesses in Development   Stony Brook, NY
Researcher/Full Stack Developer   January 2021 – February 2023
- Project(s): ClubHub
- Work on an interdisciplinary team to create a web application (ClubHub) that improves efficiency of existing systems and introduces new features
- These improvements would enhance the student experience for over 25,000 Stony Brook students

Leadership Experience

Stony Brook Computing Society   Stony Brook, NY
Vice President (2022-2023), Treasurer (2020-2022)
- Largely contributed to the development and planning of events and advertising those across campus
- Networked with external companies and organizations within the College of Engineering and Applied Sciences to hold collaborative events
- Acted as the point of contact for several initiatives such as sponsorships, fundraisers, and collaborations

College of Engineering and Applied Sciences   Stony Brook, NY
Peer Mentor (2021 – 2023)
- Served as a support system for three First Year students each year
- Met with my mentees on a weekly basis to conduct check-ins, answer their questions, and provide a space for them to destress and socialize with one another
- In total, I mentored six students

SBUHacks   Stony Brook, NY
Event Coordinator (2020 - 2021) / Partner Relations (2021 – 2022)
- Collaborate with student organizations to host workshops during the hackathon
- Collaborate with the Stony Brook Career Center to raise over $40k+ in sponsorship between SBUHacks and companies
- Organize the timings of all events, including committee meetings and submission deadlines

Department of Computer Science   Stony Brook, NY
Teaching Assistant for CSE214 (Data Structures & Algorithms) and CSE316 (Fundamentals of Software Development) (Fall 2021, Fall 2022)
- Hosted weekly in-person recitations and office hours to assist 110+ students in CSE214 with applying lecture material to exercises and 200+ students in CSE316 with assignments and coursework related to full stack web development
- Conducted review sessions to help students prepare for exams and assisted in the grading of exams and homework assignments

Skills and Abilities

- Computers: Eclipse, IntelliJ, PyCharm, VSCode, Android Studio, Anaconda, Unity, Google Colab, Jupyter Notebook
- Technical Language(s): Java, Python, Kotlin, HTML, CSS, JavaScript, MIPS, Git, OCaml, R, C, C#, SQL
- Version Control: GitHub
- Database(s): MongoDB, Firebase
- Framework(s): Bootstrap, React.js, Node.js, Express.js, Jetpack Compose, Jetpack Media3, PyTorch, NumPy, Apache Spark
- Tech Stack(s): MERN
- Languages: English, Hindi, and Gujarati (Fluent in all)