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ARMAAN SOOD

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EDUCATION

Seattle, WA **University of Washington** **Fall 2016 – Spring 2020**

3.91 GPA (Phi Beta Kappa, Dean's List)

- B.S. in Computer Science (direct admission) and Mathematics (double major)
- **Current Courses**: Systems Programming (333); Compiler Construction (401); Real Analysis; Inferential Statistics
- **Past Coursework**: Database Systems (544m); Theory of Computation (431); Data Structures + Parallelism (332); Software Design and Implementation (331); Programming Languages (341); Hardware/Software Interface (351); Foundations of Computing (311 + 312); Data Management (344); (CSE course numbers)

EXPERIENCE

Executive Officer **Association for Computing Machinery** **September 2016 – Present**

- Planning CSE events, such as interview prep, orientation, Fall Fest, Winter Ball, Spring BBQ
- Coordinating and advertising industrial affiliate sponsored events such as recruiting dinners and office hours

Teaching Assistant **University of Washington** **March 2017 – August 2017**

- Head Grader for Software Design and Implementation (CSE 331)
- Taught a section of 20-25 students and answered content-related questions on forums
- Graded theory-based code reasoning and project-based assignments
- Held office hours for homework help and course questions

Allen School Ambassador **Paul G. Allen School of CSE** **Fall 2016 – Present**

- Representing Allen School in K-12 outreach and recruitment efforts
- Creating and managing a MySQL/NodeJS database for computer science education in the Seattle area
- Developing a web tool for availability and tour registration
- Coordinating and managing activities and volunteers for outreach events such as Engineering Discovery Days, Computing Open House, Admitted Student Previews, and Weekly Info Sessions, and tours

Web Developer **City of Sammamish** **Fall 2015**

- Used HTML, CSS, JavaScript, and Adobe Dreamweaver for the Parks and Recreation Department's Geoplateau project, a platform for people to learn about local parks and DIY conservation projects

High-School Intern **Concur** **Fall 2014**

- Developed a GIS-based app using Android Studio as a team using Java to present to Concur executives
- First place in Concur's app development challenge

PROJECTS

- **SimpleDB** (March 2018): Implemented a relational database management system in Java that handles queries (joins, aggregate functions, selections, etc.), ACID transactions, and a steal/no-force crash recovery (with a write-ahead redo/undo log + non-quiescent checkpoints). It can run in parallel on a single machine or as a distributed system across multiple physical machines using Apache Mina.

- **Spam Filter** (October 2017): Implemented a Naïve Bayes Classifier with Python that trains using a subset of the Enron Corpus as pre-labeled data and predicts the classification of unseen emails.

- **CalcuSpeak** (DubHacks 2017): Created a mathematics tool for the visually impaired with Python, JavaScript, Bing Speech API, Wolfram Alpha Full Results API, and Google Cloud Speech API.

RESEARCH EXPERIENCE

Undergraduate Assistant **UW Database Group** **Spring 2018 – Present**

- Developing a cost model for LightDB, a database management system for virtual and augmented reality.

Undergraduate Assistant **Taskar Center for Accessible Technology** **Autumn 2016 – Winter 2017**

- Worked with Dr. Anat Caspi and Nick Bolton to Developed a tutorial module for the OpenSidewalks Project in Unity.

LANGUAGES AND TECHNOLOGIES

Advanced	Intermediate	Familiar
Java; SQL; LaTeX	C; C++; R; Python; Git; Linux	JavaScript; x86-64