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| armaan1@cs.uw.edu  (425) 505-7181 | **Armaan Sood** | | | armaansood.com  linkedin.com/in/armaansood |
| **Education** | | | | |
| **Seattle, WA** | **University of Washington** | | | Fall 2016 – Spring 2020 |
| 3.92 GPA (Phi Beta Kappa, Dean’s List)   * B.S. in Computer Science (direct admission) and Mathematics (double major) * **Current Courses**: Computer Vision; Algorithms; Complex Analysis * **Past Coursework**: Database Systems (grad); Theory of Computation; Systems Programming; Compiler Construction; Real Analysis; Inferential Statistics; Data Structures + Parallelism; Software Design and Implementation; Programming Languages; Hardware/Software Interface; Data Management | | | | |
| **Experience** | | | | |
| **Data Scientist Intern** | **Microsoft** | | | **June 2018 – September 2018** |
| * Implemented a real-time statistical process control system for Microsoft devices, processing 200 gigabytes of data per day, with Azure and .NET tools – the first usage of real-time analytics within Microsoft devices manufacturing. * Will be used to improve quality, avoid excess costs, and find root causes during quality failures significantly faster. | | | | |
| **Chair** | **Association for Computing Machinery** | | | **September 2016 – Present** |
| * Elected to be the external face of ACM and represent CSE students. * Coordinating with CSE, Student Advisory Council, ACM-W, and industry affiliates. | | | | |
| **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** |
| * Represented Allen School in K-12 outreach and recruitment efforts. * Designed a MySQL/NodeJS database for computer science education in the Seattle area. * Coordinated and managed activities and volunteers for outreach events such as Engineering Discovery Days, Computing Open House, Admitted Student Previews, and Weekly Info Sessions, and tours. | | | | |
| **High-School Intern** | **Concur** | | | **Fall 2014** |
| * Developed a GIS-based app using Android Studio as a team using Java to present to Concur executives. | | | | |
| **Projects** | | | | |
| * **Java to x86-64 Compiler** (June 2018): Uses JFlex (lexical analyzer generator) and CUP (LALR parser generator) to generate a scanner and parser using context-free grammars, then transforms the program into an AST for static semantics checking, type checking, and symbol table generation via the visitor pattern. Finally, generates x86-64 code based on the AST which can be run. * **SimpleDB** (March 2018): 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 or as a distributed system across multiple machines. * **Spam Filter** (October 2017): A Naïve Bayes Classifier in Python trained on a subset of the Enron Corpus as pre-labeled data and predicts the spam classification of unseen emails. * **CalcuSpeak** (DubHacks 2017): 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 system for virtual and augmented reality content at scale. | | | | |
| **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**  Java; SQL | | **Intermediate**  C; C#; R; Python | **Familiar**  C++; JavaScript; x86-64 | |