

Asir A. Alam

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Education

B.S. IN COMPUTER SCIENCE

AUGUST 2020 – DECEMBER 2023

- University of Central Florida, Orlando, FL
- GPA: 3.94/4.0
- Burnett Honors College Scholar
- President's Honor Roll (4.0 GPA) on all full-time semesters

Experience

UCF ICPC PROGRAMMING TEAM – VARSITY MEMBER

SEPTEMBER 2020 - PRESENT

- Solved hundreds of problems in preparation for the International Collegiate Programming Contest (ICPC). Participated in highly competitive contests (ICPC, Codeforces, Kattis, university contests, etc.).
- Using advanced data structures, algorithms, math, and other techniques for problem-solving.
- UCF High School Programming Tournament Judge 20-21, 21-22 - Authored problems and helped develop problem sets.
- **Technologies:** C++, Java, Python, VSCode, Linux Terminal

META PLATFORMS, INC – SWE INTERN – FACEBOOK APP MONETIZATION

MAY 2022 – AUGUST 2022

- Completed the intern project ahead of schedule and moved on to tackle further product and infra related tasks.
- Coded frontend (Android - Java) and backend (Hack - PHP) implementations of new features for new shop ad formats.
- Built a react-based internal tool (JavaScript) for sample size calculations for A/B testing on new features. Upon launch, the tool extended traction towards engineers beyond our team.
- Participated in “better engineering” tasks (writing documentation, dead code cleanups, privacy tasks, and unit tests).
- **Technologies:** PHP, Java, JavaScript, SQL, Mercurial, VSCode, Android Studio

FIRST TECH CHALLENGE ROBOTICS LEAGUE – TEAM CAPTAIN

AUGUST 2018 – APRIL 2020

- Participated in the FIRST Tech Challenge (FTC) robotics league as captain of the team.
- Designed robots based on game rules, custom parts for robots, and operated 3D printers to print the parts.
- Modified a template pipeline of OpenCV to implement a color detector using the phone camera on the robot.
- **Technologies:** Java, Android Studio, Autodesk Fusion 360

Projects

MIPS PROCESSOR SIMULATOR

- Wrote a single-cycle data path MIPS processor simulator in C, which reads in a file containing MIPS machine codes and simulates the MIPS processor's steps cycle-by-cycle.

HANDLER - REACT PROJECT

- Handler was a react-based website with a map component that allowed users to list or request small services. It allowed users to search based on the type of services, location, or browse using the map. Used several npm libraries for core functionalities and for making the UI convenient and aesthetic. E.g.: google maps, framer motion, etc.

Skills, Coursework, & Honors

- **YouTube Channel:** 4.8k Subscribers, 1.7 million views – Educational computer and guitar tutorials.
- **Programming:** C++ (>40k lines), Java (>20k lines), C, PHP, JavaScript, Python, Linux Command Line.
- **Certification:** Oracle Certified Associate, Java SE 8 Programmer
- **Relevant University Coursework:**
 - Intro to C Programming, Computer Science 1 & 2 (Algorithms & Data Structures in C and Java), Discrete Structures 1 & 2 (Logic, Proofs, Problem-Solving, Complexity Analysis, State Machines), Object-Oriented Programming (Java), Processes for Object Oriented Software Development (Web Development), Algorithms for Machine Learning (Python).
- **Software:** Visual Studio Code, Android Studio, Git/Github, Mercurial, WSL, NodeJS.
- **Languages:** Fluent: English, Bengali; Limited Working Proficiency: German, Hindi
- National Science Foundation (NSF), Florida IT GAP Scholarship (Fall 2021 – Present)

References Available Upon Request