Asir A. Alam

Orlando, FL 32826 | (407) 761-2232 | alvi.abrar29@gmail.com | linkedin.com/in/asiraalam | github.com/AsirAAlam

Education

B.S. IN COMPUTER SCIENCE **AUGUST 2020 – MAY 2024**

- University of Central Florida
- Burnett Honors College Scholar
- GPA: 3.96/4.0
- President's Honor Roll (4.0 GPA) for 5 semesters in a row

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 many competitive programming contests (ICPC, Codeforces, Kattis, collegiate contests, etc.).
- Used advanced data structures, algorithms, math, and other techniques for problem-solving.
- UCF High School Programming Tournament Judge 2020-2023 - Authored problems and helped develop problem sets.

META – SWE INTERN – FACEBOOK GAMING: PLAY + FANTASY **MAY 2023 – PRESENT**

- Worked on the Play Platform team to work on a full stack product regarding gaming notifications as a service.
- Completed the core project plan by the 8th week out of the 12 weeks of the internship and moved on to stretch goals to further solidify my product for being released into production.
- Worked on the frontend using React, database queries using GraphQL, and server-side logic using Hack.

META – SWE INTERN – FACEBOOK APP MONETIZATION **MAY 2022 – AUGUST 2022**

- Completed the intern project ahead of schedule, then designed and completed another stretch project.
- Coded frontend (Android - Java) and backend (Hack - PHP) implementations of new features for new shop ad formats.
- Built a React-based internal tool 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, stale code cleanups, privacy tasks, and unit tests).

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 FULL STACK DEVELOPER

- Worked on Handler, a MERN (MongoDB, Express, React, Node.js) stack web project that allowed users to list or request various kinds of 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 intuitive and aesthetic. E.g.: google maps, framer motion, etc.

PARALLEL KARATSUBA - github.com/abrugal/ParallelKaratsuba

- Led the programming and experimental aspects of a research paper on parallelizing the Karatsuba Multiplication Algorithm.

Skills, Coursework, & Honors

- **Programming:** C++ (40k lines), Java (20k lines), JavaScript (Flow, React – 10k lines), Hack/PHP (8k lines), C, Python.
- **Certification:** Oracle Certified Associate, Java SE 8 Programmer
- **Relevant University Coursework:** Intro to C Programming, Computer Science 1 & 2 (DSA in C and Java), Discrete Structures 1 & 2 (Logic, Proofs, Problem-Solving, Complexity Analysis, State Machines), OOP (Java), Processes for OO Software Dev (Web Development), AI & Algorithms for ML (Python), Parallel and Distributed Systems.
- **Software:** Visual Studio Code, Android Studio, Git/Github, Mercurial, WSL, NodeJS, GraphQL.
- **Languages:** Fluent: English, Bengali; Limited Working Proficiency: German, Hindi
- National Science Foundation (NSF), Florida IT GAP Scholarship (Fall 2021 – Present)

References Available Upon Request

July 2023