Amaan Marfatia

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Candidate for B.S in Computer Science and Mathematics

Aug. 2017 - May 2021

• Concentrations: Information/Internetworks, Systems and Architecture

GPA: 4.0

- Extracurriculars: Programming Team, Math Club, Chess Club
- Key Classes: Data Structures and Algorithms, System and Networks, Design and Analysis of Algorithms, Advanced Operating Systems, Computer Networking, Information Security, Processor Design

EXPERIENCE

Georgia Institute of Technology

Atlanta, GA

Student Research Assistant

Aug 2020 – Present

- Worked with professors and mentors to conduct research in accelerating sparse problems.
- Used Vivado HLS and FPGAs to hardware accelerate sparse matrix-vector multiplication with systolic tree structures.
- Submitted "Maia: Matrix Inversion Acceleration Near Memory" paper to DAC 2021.
- Added SpMV acceleration to RISC-V using a Rocket Custom Coprocessor with Chipyard and Verilator.

Amazon *Software Development Engineer*

Seattle, WA

May 2020 – Aug. 2020

- Worked on the X-Ray CloudWatch team and used Java and XML.
- Created an internal service to export X-Ray distributed tracing data in the New Relic format.
- Used AWS DynamoDB, S3, CodeDeploy, and EC2 to run and deploy the service.

Match Group, INC

Dallas, TX

Full Stack Software Engineer

Jan. 2019 - May 2019, Aug. 2019 - Apr. 2020

- Worked on the Plus1 Labs team to create Ship, an Android dating app with over 100,000 installs, from the ground up.
- Formed reactive screens and UI using Kotlin, XML, SQL, and Android architecture components.
- Created and communicated with API using Ruby, Room database, Retrofit, and Moshi.
- Developed a CI/CD pipeline using Jenkins that can push builds to the Play Store, make build notes, and inform the team of failing builds, linting issues, and code coverage drops using Jacoco.

Bank of America Jersey City, NJ

Technology Summer Analyst

Jun. 2019 – Aug. 2019

- Worked with the Independent Price Verification team to analyze and aggregate data from stock traders.
- Modernized Python files to transition the whole project from using Python 2.7 to 3.7.
- Updated and fixed over 750 failing unit tests to run in memory and in parallel.

The Rainmaker Group Ventures, LLC

Alpharetta, GA

Technical Associate Intern

Jun. 2018 – Aug. 2018

- Worked on the GuestRev software, a revenue management system for hotels, casinos, and resorts, using the ASP.NET MVC framework, SQL, and JavaScript.
- Learned C# and SQL to add a user preferences table to the database and format dates using the server-side user preferences and HTML5 local storage.

PROJECTS

Chess Repertoire

Website to make chess repertoires (chess-repertoire.web.app)

• Created a website for users to study and make chess opening repertoires using ReactJS on Firebase.

SKILLS / LANGUAGES

Programming Languages: Java, Kotlin, C, C++, Python, SQL, Dart, JavaScript, TypeScript

Technologies: AWS, Android, Web Development, Git, GitHub, Jira, Jenkins, Flutter, Firebase, Electron, React