

# Amaan Marfatia

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## EDUCATION

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### Georgia Institute of Technology

*Candidate for B.S in Computer Science and Mathematics*

**Atlanta, GA**

*Aug. 2017 – April 2021*

GPA: 4.0

- Concentrations: Information/Internetworks, Systems and Architecture
- 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

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### Georgia Institute of Technology

*Student Research Assistant*

**Atlanta, GA**

*Aug 2020 – Present*

- Working with Professor Hyesoon Kim and Bahar Asgari to conduct research in accelerating sparse problems.
- Used Vivado HLS and FPGAs to hardware accelerate sparse matrix-vector multiplication.
- Submitted “Maia: Matrix Inversion Acceleration Near Memory” paper to DAC 2021.

### 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 DynamoDB, S3, CodeDeploy, and EC2 to run and deploy service.

### Match Group, INC

*Full Stack Software Engineer*

**Dallas, TX**

*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.
- Used Kotlin, XML, Ruby, SQL, and Android architecture components to form reactive screens and UI.
- Added multiple screens by building custom UI components and API endpoints and by working with the Room database.

### Bank of America

*Technology Summer Analyst*

**Jersey City, NJ**

*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

*Technical Associate Intern*

**Alpharetta, GA**

*Jun. 2018 – Aug. 2018*

- Worked on the GuestRev software, a revenue management system for hotel, 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 so that dates would be formatted by using the server-side user preferences and HTML5 local storage.

## PROJECTS

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### Tasks Scheduler

*To-Do App (github.com/CloudyDino/tasks-scheduler)*

- Used ElectronJS and ReactJS to make a cross-platform desktop To-Do application.

### Firefox Preview

*Mozilla's Open-Source Android Browser*

- Used Kotlin to set the user's keyboard to private mode when in private browsing so that typing history is not saved.
- Used XML to flatten out layout hierarchies of several UI elements.

## SKILLS / LANGUAGES

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

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