

# Amaan Marfatia

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## EXPERIENCE

### Android Engineer

Apr. 2022 – Present

LinkedIn

Sunnyvale, CA

- Worked as the sole Android engineer on the Premium Management team on the flagship LinkedIn app.
- Created multiple A/B tests to increase user acquisition and retention resulting in \$750K+ in annualized revenue from Android subscriptions alone.
- Planned and executed redesigns for the My Premium, Premium Cancellation, and Premium Welcome flows over all three frontend clients and rewrote the flows for Android. This resulted in over \$3M+ annualized revenue.
- Added tracking metrics for API endpoints to monitor issues and downtime for Android clients.
- Working on a centralized SDUI task force to convert the Android, iOS, and web apps into thin clients.

### Full Stack Android Engineer

Aug. 2021 – Apr. 2022

Match Group — Plus1 Labs

Dallas, TX

- Continued working on the Android dating app Ship that I helped create from scratch during my internship.
- Created the login flow, the swipe gesture, and other reactive screens using Jetpack libraries, Kotlin, 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.
- Created a Docker hosted Ktor backend API using AWS DynamoDB, ECR, ECS, and HashiCorp Vault along with OpenAPI documentation to manifest an internal innovation project for user safety that was implemented by multiple brands including Tinder.

### Software Development Engineering Intern

May 2020 – Aug. 2020, May 2021 – Aug. 2021

Amazon (AWS)

Seattle, WA

- Worked on the X-Ray CloudWatch team and contributed using Java and XML.
- Created an internal service to export X-Ray distributed tracing data in the New Relic format.
- Investigated and updated X-Ray architecture to accept and process W3C distributed traces.
- Used AWS DynamoDB, S3, CodeDeploy, and EC2 to run and deploy the service.

## EDUCATION

### Georgia Institute of Technology

Aug. 2021 – May 2023

M.S. in Computer Science

GPA: 4.0

- Concentration in Computing Systems
- Key Classes: Database Systems Concepts and Design, High Performance Computing, Computer Networking

### Georgia Institute of Technology

Aug. 2017 – May 2021

B.S. in Computer Science and Mathematics (Highest Honors)

GPA: 4.0

- Concentrations: Information/Internetworks, Systems and Architecture
- Key Classes: Design and Analysis of Algorithms, Advanced Operating Systems, Information Security, Processor Design

## PUBLICATIONS

### Maia: Matrix Inversion Acceleration Near Memory

2022

B. Asgari, D. Ramchandani, A. Marfatia and H. Kim

<https://ieeexplore.ieee.org/document/10035196>

### Copernicus: Characterizing the Performance Implications of Compression Formats Used in Sparse Workloads

2021

B. Asgari, R. Hadidi, J. Dierberger, C. Steinichen, A. Marfatia, H. Kim

<https://arxiv.org/abs/2011.10932>

## PROJECTS

### Sheltr — Project for Objects and Design Class

- Collaborated with classmates to make an Android app that enables users to easily find nearby homeless shelters using filters for shelter restrictions through the Google Maps API to show shelter locations.
- Used Google Firebase for authentication and NoSQL database storage of shelter information.

## SKILLS / LANGUAGES

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

**Technologies:** Android, Kusto, SDUI, Ktor, AWS, Git, GitHub, Docker, Jenkins, Flutter, Firebase, Electron, React