

Education

• Georgia Institute of Technology (CS: 3.34/4.00)

Bachelor of Science in Computer Science - Dean's List

Atlanta, GA

Aug 2017 – Dec 2020

- Teaching Assistant - CS 7470/4605 Mobile & Ubiquitous Computing

Skills

- **Languages:** Java (Proficient), Kotlin (Proficient), Python, Javascript
- **Technologies:** Android, Flutter, Espresso, Mockito, OkHttp + Retrofit, Coroutines, AWS (Redshift, DynamoDB, S3, Lambda, EMR, IoT, Cognito, IAM), Firebase (Authentication, Firestore, Storage, Cloud Messaging, Cloud Functions, ML Kit), Git, JIRA, Confluence, TeamCity
- **Concepts:** Object-orientated programming, mobile development, MVC, MVP, MVVM, Agile/Scrum, QA
- **Certifications:** GCP Big Data and Machine Learning Fundamentals, GCP Fundamentals: Core Infrastructure

Experience

• Amazon Web Services

Amazon Redshift - Software Development Engineer Intern

East Palo Alto, CA

May 2020 – July 2020

- Ideated and developed Simple Replay, an open source tool for replaying workloads on Amazon Redshift using Python.
- Targeted release while managing private betas with external AWS customers. Helped resolve customer issues escalated to AWS leadership. Became point-of-contact and subject matter expert.
- Coordinated with customers, principal engineers, principal PMs, legal, marketing, and other business units to design project and create a multi-phased release. Onboarded and handed project to another intern.

• Amazon

Amazon's Choice - Software Development Engineer Intern

Seattle, WA

May 2019 – Aug 2019

- Shipped code to amazon.com. Significantly increased purchasing metrics by expanding relevancy and applicability.
- Created a new cross-organization product, involving senior PMTs, SDEs, UX researchers, and more.
- Doubled the types of consumed data, increasing relevancy and fueling new customer experiences.
- Published onboarding guides, architecture docs, PRFAQs, and UI mockups. Held multiple technical design reviews.

• National Cash Register

Innovation Lab & Silver Software Engineering Intern

Atlanta, GA

May 2018 – Dec 2018

- One of 3 Android developers on app with over 1,000,000 lines of code, 19 modules, and 100,000+ international users.
- Deployed a Kotlin Multiplatform project, eliminating duplicate code in Android and iOS.
- Introduced instrumentation tests by implementing Espresso and UI Automator, and integrated them into CI.

Miscellaneous

• Theory IoT, LLC

Co-Founder & CEO

<https://theoryiot.com>

Sep 2017 - Present

- Internet of Things startup targeted at renters. Funded in part through Georgia Tech.
- Responsible for mobile and web apps in Flutter, Alexa and Google Assistant integrations in Node.js, all things backend and AWS (IoT, Cognito, DynamoDB, API Gateway, IAM), CAD, contractors, and legal matters.

Other

• Leadership

Georgia Tech

- **Developer Student Clubs:** Founder & President - <https://dscgt.club>
- **Android Club:** Co-President - <https://gitmad.club>

• Publications

Human-Computer Interaction

- **MobileHCI '20 (Pending):** Jason Tu, Georgianna Lin, Thad Starner. 2020. Towards an Understanding of Real-time Captioning on Head-worn Displays. In Proceedings of the 22nd International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI '20). Association for Computing Machinery, New York, NY, USA. DOI:<https://doi.org/10.1145/3406324.3410543>
- **ISWC '20 (Pending):** Jason Tu, Georgianna Lin, Thad Starner. 2020. Conversational Greeting Detection Using Captioning on Head Worn Displays Versus Smartphones. In Proceedings of the 2020 International Symposium on Wearable Computers (ISWC '20), September 12–16, 2020, Virtual Event, Mexico. DOI:<https://doi.org/10.1145/3410531.3414293>