

# MATTHEW KAUFER

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## EDUCATION

- Georgia Institute of Technology** (Georgia Tech), Atlanta, GA August 2016 – May 2019
- Candidate for B.S. in Computer Science, GPA: 3.94 / 4.00
  - Concentrations in Artificial Intelligence & Devices

## SKILLS

**Programming Languages:** TypeScript / JavaScript, Java, Python, HTML, CSS/SASS

**Frameworks & Libraries:** React, Node.JS, AWS, MongoDB, three.js, Django

## WORK

**Full-Stack Software Engineer at Scale** July 2019 – Present  
San Francisco, CA

- Built suite of tooling to generate and manage quality signal for tens of thousands of global taskers. Helped leverage these signals to increase margins on multi-million dollar contracts
- Designed & shipped new core product to enable 6+ figures in immediate sales with week of turnaround
- Created dynamic templating engine for internal tooling, saving engineers significant overhead and reducing inconsistencies & bugs in codebase
- Performed countless experiments to improve tasker quality, along with analytics for said experiments.

**EC2 Security Infrastructure Intern at Amazon** May 2018 – August 2018  
Seattle, WA

- Designed, built, and tested software to handle data from and validate health of millions of EC2 instances
- Wrote code to be deployed in 16 AWS regions across the globe

**Research Assistant at Robotic Musicianship Research Lab** August 2017 – December 2018  
Georgia Tech, Atlanta, GA

- Trained machine learning models for signal processing of ultrasound data
- Utilized said models to interface with prosthetic arm using patent pending technology
- Designed system for musical improvisation with genetic algorithms, connected to marimba playing robot
- Built NLP and audio synthesis systems for robotic companion

**HackGT Organizer** November 2016 – Present  
Georgia Tech, Atlanta, GA

- Create and maintain technologies such as HackGT's registration app, check-in app, and event websites, handling data from over 6,000 applicants
- Lead workshops to teach students about technologies such as web and android development
- Build interactive NFC platforms to keep hackers engaged and connected with one another

**Backend Engineering Intern at Remy** May 2017 – August 2017  
New York, N.Y.

- Built an AWS Lambda function using OCR to automatically extract text from uploaded documents and store them in an ElasticSearch server, allowing audit compliance data to be easily queryable
- Wrote comprehensive unit tests for Remy's backend platform in Django

## PROJECTS

### **Spo-tfidf-y**

- Created semantic vectors of an artist's discography from scraped user playlists
- Performed analysis on vectorized output to analyze user listening trends
- Wrote up results and created interactive d3 graphs in a blog post

### **Fetch Path Planning**

- Developed variant of BiRRT path planning algorithm for robotic mobile manipulator
- Wrote custom code for 3D inverse kinematics, simulation, and path planning from scratch in Python