

# Ankit Gupta

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## EDUCATION

### WASHINGTON UNIVERSITY IN ST. LOUIS

#### McKELVEY SCHOOL OF ENGINEERING

B.S. in Computer Science

Second Major in Economics

Aug 2017 - Dec 2020 | St. Louis, MO

Dean's List: Fall 2017 - Spring 2019

GPA: 3.84/4.00

MAJOR GPA: 3.94/4.00

### HORACE MANN SCHOOL

Sep 2013 - June 2017 | Bronx, NY

Honors in comp sci, math, history

Student ambassador and tour guide

## LINKS

Website:// [ankit.tech](http://ankit.tech)

Github:// [ankit0504](https://github.com/ankit0504)

LinkedIn:// [ankit-gupta-](https://www.linkedin.com/in/ankit-gupta-)

## SKILLS

### Languages

Java • Python • Kotlin • JavaScript • SQL

• C++ • R • x86 Assembly • AVR

Assembly • PHP • CSS • HTML

### Technology

CAD •  $\LaTeX$  • Git • Docker • Amazon EC2

• RxJava • Dagger • Node.js

## COURSEWORK

### COMPUTER SCIENCE

Analysis of Algorithms

Systems Security

Introduction to Systems Software

Introduction to Data Science

Rapid Prototype Dev. & Creative Prog.

Object-Oriented Software Dev. Lab.

Data Structures & Algorithms

Logic & Discrete Mathematics

Web Development

Introduction to Computer Engineering

### ECONOMICS

Econometrics

Capital Market Imperfections &

Entrepreneurial Finance

Economics of Public Policy

Intermediate Macroeconomic Theory

Intermediate Microeconomic Theory

### MATHEMATICS

Multivariable Calculus

Linear Algebra

Statistics & Probability

## EXPERIENCE

### SQUARE | SOFTWARE ENGINEERING INTERN

May 2019 – Aug 2019 | San Francisco, CA

- Completed a spike to prove the viability of and develop a plan for integrating weighing scales into the Android Point of Sale (POS).
- Wrote a design document to effectively communicate my plan for scale support.
- Communicated with an external vendor to coordinate details for integrating their product into Square POS.
- Designed and built an API using RxJava that communicated with weighing scales and provided that information to other Square teams.
- Implemented a user interface that displayed available weighing scales.
- Investigated RSSI connectivity of Square card readers to obtain better analytics for Bluetooth connections.

### WASHINGTON UNIVERSITY IN STL | TEACHING ASSISTANT, TUTOR

Jan 2018 – Present | St. Louis, MO

#### Data Structures & Algorithms Head TA

- Manage a team of 100+ TAs and a class of 450+ students.
- Host recitation and exam review lectures for course material.
- Develop course material. (studio exercises, lab assignments, quizzes, etc.)
- Schedule office hours and coordinate exam and assignment grading.

#### TA Courses: Intro to Microeconomics, Object-Oriented Software Dev. Lab.\*, Rapid Prototype Dev. & Creative Prog., Logic & Discrete Math, Intro to Computer Science

- Assist students working through assignments in a laboratory setting.
- Hold open office hours twice a week to help students outside of the classroom.
- Grade students' exams and homework submissions.

#### Tutor Courses: Object-Oriented Software Dev. Lab., Data Structures & Algorithms

- Help students one-on-one with assignments and exam preparation.

### CROSSBEAM | SOFTWARE DEVELOPMENT INTERN

May 2018 – Aug 2018 | Philadelphia, PA

- Implemented a Python Flask, PostgreSQL, REST API backend and Vue.js, Bootstrap frontend for a website that tracks B2B partnerships.
- Worked extensively on SEO using Vuex and Nuxt.js server-side rendering.
- Utilized D3 to construct network graphs to highlight B2B partnerships.
- Developed unit and integration tests in Python and JavaScript.
- Worked closely with a team of two founders and four interns.

## PERSONAL PROJECTS

### FINGERPRINT PAYMENT | KOTLIN

- Integrated fingerprint sensor into Square POS to enable a payment using biometric authentication.

### REACT BETTING WEBSITE | REACT (JAVASCRIPT)

- Constructed a React+Node.js website that keeps track of and finds bets.

### JOEY TRIBBIANI CHROME EXTENSION | JAVASCRIPT

- Used JavaScript to create a mass thesaurus Chrome Extension.

### FAMILY TREES | D3

- Used D3 to visualize my family ancestry.