Gerardo Torres

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Education

NYU Tandon School of Engineering *Sep. 2017 - May. 2021*
B.S. in Computer Science GPA: 3.08/4.00

- Relevant coursework: Operating Systems, Implementation of Programming Languages, Computer Architecture, Analysis of Algorithms, Object-oriented Programming, Data Structures & Algorithms, Web Design, Databases

Work Experience

Twitter *May. 2019 - Aug. 2019*
Software Engineering Intern San Francisco, CA

- Spearheaded the development of `arc owners`, a command line tool to discover code owners for differential revisions in code reviews leveraging Git and Phabricator APIs written in PHP
- Implemented the heuristic-based *Staccato* algorithm to approximate a solution to the NP-hard minimum hitting set problem in `arc owners` which suggests a list of reviewers for code reviews
- Wrote a Python script to generate Presto SQL queries summarizing internal usage statistics for `arc` commands used for bug fixes by the code review team

Finhabits *Jan. 2019 - May. 2019*
Software Engineering Intern New York, NY

- Led the design and development of a fingerprint login authentication system utilized by over 3,300 users throughout the Finhabits native Java Android app
- Developed a backend REST API to supply the authentication system with asymetric key encryption, retrival, and verification compatible with Android APIs and the Java Spring framework
- Built a reset password feature using Thymeleaf for UI templating and Java Spring for the backend

Adventurely *Aug. 2018 - Dec. 2018*
Software Engineering Intern Remote

- Redesigned the Ionic JavaScript hybrid mobile app's messaging platform with new, interactive, and user-friendly UIs and widgets using AngularJS, HTML, & CSS
- Improved main menu user experience flow by re-structuring AngularJS views and controllers

Con Edison *Jun. 2016 - Nov. 2018*
Engineering Aide Intern New York, NY

- Programmed 32 new SCADA GUIs that monitor the NYC electrical distribution system using Visual Basic, MySQL and AutoCAD as part of a $1 billion storm-hardening initiative
- Built a feeder scheduling dashboard with Visual Basic used by four regional control centers across the company

Projects

- **Ultra chat** – Real-time terminal chat app built with NodeJS and MongoDB handling websocket connections for multiple users featuring a minimalist command-line interface
- **Thermoelectric battery** – Arduino-controlled, thermal-powered battery for semester-long design project achieving 9 volts to charge a cellphone
- **Slatt** – Command line tool written in Go for transferring files and folders between machines in the same network

Skills

Programming:	Go, C++, Java, JavaScript, Python
Web & Databases:	Spring MVC, Node, HTML/CSS, Angular, SQL
Tools & Technologies:	Git, Vim, LaTeX, Arduino

Awards

- NYU Computer Science and Engineering Dean's List *Fall 2017, Spring 2018*
- Ascend Educational Fund (AEF) scholar *May. 2017*