

Neil Patil

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EDUCATION

Pursuing B.S. in Computer Science - The University of Texas at Austin **2016 - 2020**
Turing Scholars Honors Program GPA: 3.87
Coursework: Robot Learning (Graduate Course), Geometry of Data Science, Machine Learning, Linear Algebra, Operating Systems, Architecture, Competitive Programming, Data Structures, Vector Calculus

EXPERIENCE

Software Engineering Intern - Google, Inc **Summer 2017**

- Migrated Android's Tap & Go setup feature to a more secure and reliable device-to-device Bluetooth protocol
- Implemented authentication using the SPAKE protocol, and improved end-to-end test infrastructure
- Coordinated with internal Security and Bluetooth teams to begin a staged rollout to 1B+ Android devices

Software Engineering Intern - Atlassian, Inc **Summer 2016**

- Created a web Java Spring framework to monitor quality and reliability of user feedback data
- Improved systems for feedback collection, creating Python + SQL systems to automate follow up emails

Software Engineering Intern - Indeed, Inc **Summer 2015**

- Created a Javascript bookmarklet to auto-fill online job applications using a jobseeker's resume
- Developed a regex-based system to detect form fields, and deployed project within Indeed's iOS app to 100K+ users

Software Engineering Intern - Indeed, Inc **Summer 2014**

- Prototyped a Django Python webapp and Android app to automatically search for jobs based on a user's resume

PROJECTS

LASACTF Computer Security Contest - Co-Founder (lasactf.com) **Jan 2016 - April 2016**

- Created online computer security competition for high school and college students, with 5000+ competitors worldwide
- Led a team of 10 to create the competition, developed/deployed website, and managed communications

manaTEAMS - Team Lead, Developer (manateams.com) **Aug 2014 - July 2016**

- Chrome Extension + Android app to scrape data from online gradebooks, letting students easily check grades
- Acquired over 6000 users and recognized by the Austin ISD school district

Automated Quadrino **Aug 2017 - Present**

- Building an Arduino Nano quadcopter (using C++) to autonomously hover and accurately land on a desired target
- Planning to use DMPs (Dynamic Movement Primitives) and policy learning to train generalizable trajectories

ScrapSorter (github.com/patil215/scrapsort) **July 2017**

- Modified a ConvNet classifier to determine if an item is recyclable from a Raspberry Pi camera photo
- Integrated classifier into a hardware device, creating a trash sorter. Finalist at Greylock Hackfest 2017

SKILLS

Proficient: Python, Java, C, Git **Familiar:** machine learning concepts, network security, Javascript, webdev
Working Knowledge: Tensorflow, SQL, MongoDB, Octave, prototyping (Arduino, 3D Printing, etc)

EXTRACURRICULARS

Information Systems & Security Society - Head of Engineering **April 2017 - Present**

- Teach members and build challenges demonstrating common security concepts (SQL injection, port scanning, TCP/IP, etc)

UT ACM Competitive Programming Team **August - December 2016**