

Neil Patil

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EXPERIENCE

Software Engineering Intern - Google, Inc (Android Things Team)

Summer 2017

- Migrated Android's Tap & Go setup system to more secure and reliable Bluetooth API
- Built in backwards compatibility with old protocol, allowing for silent deployment to Android phones
- Implemented authentication using the SPAKE protocol, and improved end-to-end test infrastructure

Software Engineering Intern - Atlassian, Inc

Summer 2016

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

Software Engineering Intern - Indeed, Inc

Summer 2015

- Created a Javascript bookmarklet and Spring backend to auto-fill online job applications using a jobseeker's resume
- Developed a rule-based system to detect relevant form fields, and deployed project within Indeed's iOS app

Software Engineering Intern - Indeed, Inc

Summer 2014

- Prototyped a Django Python webapp and Android app for automatic resume-based job search

EDUCATION

Pursuing B.S. in Computer Science & Physics - The University of Texas at Austin

2016 - 2020

Turing Scholars Honors Program

GPA: 3.87

Coursework: Robot Learning (Graduate course), Data Science, Operating Systems, Architecture, Data Structures, OS, Machine Learning (Coursera), Competitive Programming, Linear Algebra, Modern Physics, Vector Calculus

PROJECTS

LASACTF Computer Security Contest - Co-Founder (lasactf.com)

Jan 2016 - April 2016

- 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

ScrapSorter (github.com/patil215/scrapsort)

July 2017

- Created 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

manaTEAMS - Team Lead, Developer (manateams.com)

Aug. 2014 - Aug. 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 Room (tinyurl.com/auto-room)

Aug. 2016 - Present

- Building internet-connected devices to improve my dorm room (RFID lock, smart blinds, water alarm clock, etc)

SKILLS

Proficient: Python, Java, C, Arduino, Git

Familiar: Tensorflow, Security, SQL, JS, frontend web dev, Spring

Working Knowledge: Octave, MongoDB, NodeJS, Django, mechanical fabrication

INTERESTS: Computer Security, Machine Learning, Aerospace/Mechanical Engineering

EXTRACURRICULARS

Information Systems & Security Society - Head of Engineering

April 2017 - Present

UT ACM Competitive Programming Team

August - December 2016

Beevo Beekeeping Society

January 2017 - Present