

Neel Patel

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Address:

2108 Beaver Creek Lane
Southlake, TX - 76092

EDUCATION

Purdue University *West Lafayette, Indiana*

- Double Major: Bachelor of Science in Computer Science and Applied Physics
- Concentration: Machine Learning and Systems Engineering
- Purdue University's Dean's List & Semester Honors

Senior (Grad. 2021)

GPA: 3.67

Carroll Senior High School *Southlake, Texas*

- Cumulative High School GPA: 3.99
- **Southlake Carroll Vex Robotics Team: Team Captain and Programming Lead**

Grad. June 2017

RELEVANT COURSEWORK

Data Structures and Algorithms, Operating Systems, Compilers, Intro. to Artificial Intelligence, Computer Networks, Computer Architecture, Systems Programming, Special Relativity, Waves and Oscillations

TECHNICAL SKILLS

Languages – C/C++, Java, Python, Bash, NodeJS, Angular, PowerShell

Frameworks/Tools – Git, Android, UNIX/Linux, Docker, PyPI, Jenkins-Pipeline, scikit-learn, GCP, AWS, JMeter, Qt

WORK EXPERIENCE

Google *Software Engineering Intern*

May 2020 – August 2020

- Actively contributed to the Python open-source community working with the Python Packaging Authority
- Engineered a public facing dataset using Google BigQuery to provide analytical information for Google engineering teams about Python packages hosted on PyPI
- Collaborated with the TensorFlow team to incorporate GPU tagging functionality in pip/PyPI and author a Python Enhancement Proposal to streamline GPU compatibility deployment.
- Implemented email security features to verify user interest to collaborate on a project and notify delivery of authorized emails to prevent email spoofing scams.

Capital One *Software Engineering Intern*

June 2019 – August 2019

- Applied ML & NLP techniques to identify database fields that contain customer data restricted by privacy laws (CCPA)
- Developed a data processing pipeline for AWS Lambda to identify relevant metadata entries using bag-of-words features for SVM and MLP classification.
- Processed all available Capital One Auto Finance data storage metadata (800k+ entries) for automated CCPA tagging.
- Incorporated the tagged data to implement a web dashboard using Angular and SpringBoot that provides business insights on the customer experience for the Capital One Auto Navigator Mobile Team.

Quicken *Digital-Enterprise Automation Engineer Intern*

May 2018 – August 2018

- Tested product microservices using tools such as Postman and JMeter under the Agile Sprint process.
- Generated load tests to analyze server capabilities running on Docker and Kubernetes frameworks
- Utilized Microsoft Azure components such as Cosmos DB and Function Apps to manage REST-APIs using NodeJS
- Collaborated closely with co-workers under the Scrum process to follow a test-driven development

School Rush *Android and Web Developer Intern*

June 2016 – June 2017

- Coordinated with supervisor to build an app for a startup that allows communication with schools, students and parents
- Managed cloud services such as AWS to maintain Android and Web application

PROJECTS

"SplitSound" – JavaScript, Flutter

- Co-founder: Led team of 4 to follow Agile/Scrum Development structure
- An environment agnostic application that allows users to share audio with friends and family using software splitting rather than spending on a hardware splitter
- Innovating a new technology that is user-friendly and can be commonly available on the market across all platforms such as Windows, OSX, Linux, Android, iOS and more.

"HulaLoop" – C++, C, CMake, QML (<https://github.com/symboxtra/HulaLoop>)

- Cross-platform loopback application that utilizes OS-level audio interfaces to capture system-wide audio and relay it back to users for further development
- Successfully built this application as a microservice architecture that allows other developers to incorporate this loosely coupled service as an internal module.

ACTIVITIES AND AWARDS

Symboxtra Software *Co-Founder* (www.github.com/symboxtra)

January 2018 – Present

Purdue Orbital *Ground Station Team Member*

November 2018 – Present

Purdue Lunabotics *Autonomy Team Member*

September 2017 - Present