

## Abhishek Chaudhuri

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### Experience

#### **June 2020 – August 2020 | Global Technology Intern | Prudential Financial, Remote**

Maintain Prudential's mobile architecture by delivering products that are efficient and inexpensive, thereby making everyday tasks from consumers more convenient and reliable.

- Researched 6 use cases where on-device machine learning can benefit Prudential
- Developed a sign language interpreter iOS app in Core ML using image classification
- Trained a model in Create ML to interpret sign language using 3500 images
- Assembled over 2000 lines of feedback about Prudential's culture and products using web scrapers in Python

#### **November 2019 – April 2020 | Raspberry Pi Developer | Rutgers, New Brunswick NJ**

Collaborate with a 4-person capstone project to engineer a robot that can automate printing designs on the ground for artistic and commercial purposes.

- Incorporated a Java library to SSH and transfer image files between an Android app and a Raspberry Pi
- Wrote a Python script to handle image recognition and have the bot traverse the RGB matrix
- Integrated functionality with I2C and GPIO pins to control the motors, ultrasonic sensor, and servo

#### **September 2017 – April 2020 | N2E President & Instructor | Rutgers, New Brunswick NJ**

Teach students how to go from novice to expert (N2E) in 5 coding languages through small, hands-on workshops.

- Established a syllabus that coincided with introductory C++ classes
- Boosted students' class performance by a letter grade
- Promoted the club through social media and increased attendance by 50%
- Recruited 11 qualified instructors and managed workshop timings
- Received a Leadership & Service Award for leading the N2E division

#### **November 2019 – December 2019 | Android Developer | Rutgers, New Brunswick NJ**

Collaborate with a 4-person team to deliver an Android app in Kotlin that recommends places based on sensor data and user input, featuring a quality user interface that explores a novel API.

- Extracted JSON from the Google Places API into a concise info page
- Designed the app to be responsive across all devices
- Created a recommendation algorithm based on exponential sensor data
- Eased collaboration by creating a GitHub repo and merging 100+ commits

#### **June 2019 – August 2019 | Mobile Engineering Intern | Prudential Financial, Newark NJ**

Maintain Prudential's mobile architecture by delivering products that are efficient and inexpensive, thereby making everyday tasks from consumers more convenient and reliable.

- Developed a **low-cost**, high-fidelity indoor navigation system in Swift using a static map image
- Incorporated fixed waypoints and graphing algorithms to determine one's current location and routing in buildings
- Maintained indoor data in JSON through a web app (front-end: HTML, CSS, & JavaScript, back-end: Python)
- Researched ways to improve the HR process by integrating third-party apps into Dynamics 365

### Education

#### **Master of Science | Rutgers University – New Brunswick**

- Concentration: Software Engineering
- Technical Paper: Fully-Connected Neural Network in Verilog

#### **Bachelor of Science | Rutgers University – New Brunswick**

- Major: Computer Engineering, Minor: Computer Science
- Graduated Summa Cum Laude