

VARUN RAMANI

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EDUCATION

College Park, MD	University of Maryland	August 2020 – May 2023
<ul style="list-style-type: none">B.S. in Computer Science. Current GPA: 3.92 / 4.0Coursework: Networks; Data Science; Cryptography; Algorithms; Organization of Programming Languages; Intro Systems (C/UNIX/Assembly); Object-Oriented Programming; Multivariate Calculus; Statistics I; Discrete Math; Linear Algebra		

WORK EXPERIENCE

Software Engineering Intern	Meta (formerly Facebook)	May 2022 – August 2022
<ul style="list-style-type: none">Finished and deployed improved identity matching system backed by hashed device ID data to Facebook's products.Implemented experiments assessing the effects of implementing the new system in the identity matching backend and replacing the prior solution. Created new experiment framework to assess effects on certain products.Worked in Hack, Python, and Meta's internal tools.		

Undergraduate Research Assistant	FIRE: The First-Year Innovation & Research Experience	August 2020 – December 2021
<ul style="list-style-type: none">Collaborated with peers to develop machine learning model using UNet architecture to perform semantic segmentation on LIDAR data. Presented at undergraduate research summit.		

Sensei (teacher)	Code Ninjas Princeton	March 2019 – December 2019
<ul style="list-style-type: none">Taught students aged 7–14 programming fundamentals through game development courses in Scratch and JavaScript.Designed and led multi-day workshop on building NLP chatbots powered by Python/IBM Watson.Supervised, mentored, and guided groups of up to 25 students at a time as they built their software.		

TECHNICAL SKILLS

- Fluent:** Python, Java, NodeJS, JavaScript, MongoDB, Fullstack Development
- Some Experience:** Go, PostgreSQL, Flutter, React Native, C, Machine Learning

PROJECTS AND AWARDS

Memaid	Best Social Good Hack & Best Use of Google Cloud	gh:varun-ramani/memaid
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- Collaborated with 3 peers to integrate computer vision, speech to text, and NLP into a dementia aid.
- When someone introduces themselves to the user, the application memorizes their face *after only seeing it once* and associates it with their name. Furthermore, it listens to any subsequent conversation and stores relevant highlights.
- The next time the user meets this person, the application will automatically recognize them and relay their name / last conversation highlights to the user through any connected headphones or earbuds.
- Competed against 91 other teams.

Maskif.ai	Grand Prize, YHack 2020	gh:varun-ramani/maskifai-server
<ul style="list-style-type: none">Collaborated with 3 peers to develop accessible computer vision-powered IoT product.Product helps businesses deal with anti-maskers during pandemic by intelligently triggering connected smart lock when unmasked individual approaches door; automatically unlocks door after they leave.Beat 42 competing teams for first place.Applied Python, Tensorflow, Flask, and Google Assistant SDK.		

Intellicity	Top 30, PennApps 2019	gh:varun-ramani/intellicity
<ul style="list-style-type: none">Collaborated with 3 peers to develop advanced mobile map application.Product uses crowdsourced information and computer vision to add rich, granular details to Google Maps; includes but is not limited to precise geolocation data for trash bins, bathrooms, safety hazards, and parking spots. Helps people navigate unfamiliar places with absolute confidence, instantly finding anything they need.Competed against 242 other teams.Applied Dart/Flutter, Python 3, MongoDB, and Flask.		