Varun Ramani

Plainsboro, New Jersey

varun.ramani@gmail.com (732) 672-5930 varun-ramani varunramani.com

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OBJECTIVE

Apply my programming experience and problem solving capability to an internship or research opportunity in the field of computer science.

EDUCATION

University of Maryland College Park, College Park MD *(August 2020 - May 2024)*
West Windsor-Plainsboro High School North, Plainsboro NJ *(September 2016 - June 2020)*

RELEVANT COURSEWORK

In-Progress: Objected Oriented Programming II (CMSC132), Calculus II
Completed: AP Calculus AB, AP Computer Science A, Advanced Topics in Computer Science Honors

WORK EXPERIENCE

Code Ninjas Princeton, Princeton NJ - Sensei (teacher) (March 2019 - December 2019)

- Taught students introductory programming concepts using game development courses in Scratch and Javascript.
- Conceptualized, developed, and led a multi-day workshop on using IBM Watson technology to create natural language chatbots in Python.
- Developed and led mini-workshop about implementing computer vision in Scratch using IBM Watson.
- Mentored and supervised groups consisting of over 25 students at a single time, guiding them through the process of designing, developing, and debugging their software.

LANGUAGES AND FRAMEWORKS

Fluent: Python, Flask, Java, NodeJS, JavaScript, MongoDB
Some Experience: Go, PostgresQL, Flutter, React Native, C

PROJECTS AND RELATED AWARDS

ZConfer (GitHub: varun-ramani/zconfer)

- Designed, developed, and published a comprehensive configuration program for the Z Shell, a tool used by software developers and power users alike.
- Abstracts away the tedious task of configuration to save users time.
- Built in Python 3.

Maskif.ai (GitHub: varun-ramani/maskifai-server) (*Grand Prize at YHack 2020)*

- Collaborated with others to develop an accessible computer vision-powered system that businesses can deploy to prevent anti-maskers from entering.
- When Maskif.ai detects an approaching anti-masker, it triggers a connected smart lock, then automatically unlocks the door after the anti-masker leaves.

Campus Connect (GitHub: varun-ramani/campusconnect) (*First Place at HackCCM 2018)*

- Created a social website that connects like-minded people from the same college campus with each other.
- Implemented with Materialize on the website frontend, ASP.NET on the server, and a MySQL database.

Intellicity (GitHub: varun-ramani/intellicity) (*Top 30 at PennApps 2019)*

- Built a mobile application that uses crowdsourced information and computer vision to add rich, granular details to Google Maps, helping people navigate new places with ease and confidence.
- Flutter powered the mobile application, while Python 3, MongoDB, and Flask handled server-side operations.

SkySpeech (GitHub: varun-ramani/skyspeech) (*2nd Place, Best Use of Qualcomm at HackPHS 2018)*

- Developed a mobile application and networked hub to aid in search and rescue missions by enabling communications even in the absence of internet or cellular connectivity.
- Used React Native for the application, Bootstrap on the website frontend, a Dragonboard 410c for the networked hub, and Python 3/Flask for the software running on both the website and hub backends.