VARUN RAMANI

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EDUCATION

College Park, MD **University of Maryland** **August 2020 – May 2023**

- B.S. in Computer Science. Current GPA: 4.0 / 4.0
- Coursework: Object Oriented Programming I & II; Calculus I & II; Introduction to Computer Systems (C, UNIX, and MIPS Assembly Programming); Discrete Structures; Linear Algebra

TECHNICAL SKILLS

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

PROJECTS AND AWARDS

Maskif.ai **Grand Prize, YHack 2020** **gh:varun-ramani/maskifai-server**

- 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.

SkySpeech **2nd Place & Best Qualcomm Dragonboard Hack, HackPHS 2018** **gh:varun-ramani/skyspeech**

- Worked with 1 peer to develop mobile app and networked hub to aid in search and rescue missions; product enables communications even in the absence of internet or cellular connectivity.
- Competed among at least 50 teams.
- Applied Python, Flask, React Native, Bootstrap, and Qualcomm Dragonboard 410c.

Intellicity **Top 30, PennApps 2019** **gh:varun-ramani/intellicity**

- 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.

ZConfer **26 Stars On GitHub** **gh:varun-ramani/zconfer**

- Worked independently to design, develop, and publish comprehensive configuration tool for the Z Shell, a widely used command prompt program for UNIX-like systems.
- Abstracts away the tedious and often difficult task of writing configuration files; saves experienced users colossal amounts of time, while simultaneously making the Z Shell far more approachable for newcomers.
- Written in vanilla Python 3, used no dependencies to maximize performance and ease of installation.

EMPLOYMENT

Sensei (teacher) **Code Ninjas Princeton** **March 2019 – December 2019**

- Used game development courses in Scratch and JavaScript to teach students aged 7–14 introductory programming concepts.
- Conceptualized, developed, and led multi-day workshop on building NLP chatbots in Python using IBM Watson.
- Developed and led mini-workshop covering computer vision in Scratch using IBM Watson.
- Supervised, mentored, and guided groups of up to 25 students at a time as they built their software.