Naman Singh

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Experience

PFP Cybersecurity, Software Engineering Intern, June – Aug 2017

- **Built the Front-End User Interface** using the Electron framework for a demo of the company's products at **Black Hat USA 2017**
- Wrote python scripts to hack into a printer for the company's hacking demo

Education

Virginia Tech, Blacksburg, VA 2017-2021

- Intended B.S. Computer Science; Minor: Mathematics
- Honors College Student **(Top 6.8% of school)**
- Relevant Courses: Software Design & Data Structures, Discrete Mathematics, Multivariable Calculus, Foundations of Physics II

Westfield High School, Chantilly, VA 2013-2017

- SAT : 1520/1600 (790 Math, 730 Evidence-Based Reading and Writing)
- SAT Subject Tests: 790 Math II, 760 Physics
- Received the highest score on AMC 12 (American Math Contest) from the school

Activities

Founder, Naman Mobile Apps 2016-Current

- **Published 3 apps on the Google Play Store and reached over 1,000 downloads:**
  - Raptionary: 650+ downloads, 4.8-star rating
  - ESnap: 250+ downloads, 4.2-star rating
  - Trump Bump: 150+ downloads, 5-star rating

President, WHS Comp Sci. Club, 2014-2017

- Formed club of over 20 members where I taught students how to develop mobile applications on Android devices
- Took club to 6 local and university hackathons
- Participated in ACSL contests and prepared the team by teaching basic CS principles

Projects

Draw Platformer, HackUVA, University of Virginia, March 2017

- **Grand Prize Winner (1st Place out of 41 teams)** at the UVA hackathon
- Developed a website that allows you to upload the picture of a custom hand-drawn game map made with markers and paper, and have it converted using computer vision into a platformer style video game for you to play, as well as share online with friends
- Made front-end for the project (Bootstrap), and used JavaScript to create the game's functionalities

Raptionary, VTHacks, Virginia Tech, Feb 2017

- **Finalist Team (Top 6 of 46 teams)** at the VT hackathon, where we got to demo our project to the entire audience
- Developed an app to help users understand any song's lyrics by integrating song lyrics with an urban dictionary lookup tool, as well as providing the song's sentiment and personality overview
- Used the **jsoup** library to scrape the page source codes of azlyrics.com and urbandictionary.com for lyrics and definitions, and used the **IBM Watson API** for sentiment and personality analysis of songs

MediKey, Conrad Spirit of Innovation Challenge, Sept 2015 – April 2016

- **Won the Security/Cyber-technology category,** became a **2016 Pete Conrad Scholar**
- Filed a **Provisional Patent for the mobile app** of the winning project
- Developed "MediKey", a mobile application that enables secure sharing of relevant lifesaving medical history with Emergency Health Technicians (EMTs), regardless of consciousness of the patient. The EMT's phone securely retrieves a patient's encrypted medical information from the patient's phone using **NFC technology**.
- Invited to the **ASEE (American Society for Engineering Education) Annual Conference** in New Orleans to receive "Recognition of Outstanding Achievement in Science & Engineering"

ESnap, VTHacks, Virginia Tech, Feb 2016

- Developed a mobile app that generates summaries from screenshots/images of pages in a textbook or article
- Used **OCR** and **NLP** APIs to convert images into text format and generate summaries

Technologies

- Java, Android, JavaScript, Python, HTML/CSS