
Education

Indiana University | Bloomington, Indiana

Bachelor of Science in Informatics, Minor in Computer Science

Aug 2019 — May 2021

GPA: 3.90/4.00

Ivy Tech | Columbus, Indiana

Associates Applied Science in Computer Networks

Aug 2017 — May 2019

GPA: 3.67/4.00

Technical Skills

Languages and Development: Python, C++, JavaScript, C#, MySQL, PHP, Java

Operating Systems: Linux, Unix, Windows, Macintosh

Security: network design, firewalls, vulnerability scanning, website monitoring, virtual machines

Tools: AWS, Version Control, GitHub, Visual Studio, Agile development

Engineering Projects

IU Cyber Competition | 2nd place

Oct 2020 — Nov 2020

- Led security team to defend against 94% of malicious network intrusions in a competitive CTF Linux environment
- Achieved by working to structure system authentication, firewalls, and packet filtering to defend against opposing teams while simultaneously using Linux CLI Cryptography tools to breach competitor teams' system information.
- Using Linux tools like Iptables and Tcpdump to monitor and defend the networks against malicious attacks while also cryptographically breaching opposing systems using port scanners like Metasploit and V0lt to earn 2nd place

Student Meal Points Database

Jan 2021 — May 2021

- Implemented an accurate and scalable database to maintain student on-campus meal points, yielding 18% increased access speeds over previous implementations while maintaining data security for sensitive student information
- Success measured by time to access database records accurately when using campus dining hall computer systems
- Worked with ERDs, MySQL, and PHP to create and scale database allowing the end user to access and manipulate data through a secure web portal while protecting the database from injection attacks or bad actors

Digital Desktop Personal Assistant

Aug 2020 — Dec 2020

- Developed a desktop personal assistant using Python that increases user productivity by an average of 14-20%
- Accomplished this using enhanced voice recognition and speech-to-text to run common system functions and queries without the need for the user to manually enter information, freeing up time and resources for other tasks
- Used Python, custom API, and Python voice engine to provide enhanced functionality such as automated system commands and improved search queries to improve the interfacing between the user and their workstation

Experience

IU Vision Lab | Bloomington, IN

May 2019 — Aug 2019

Systems Engineering Intern

- Built and tested privacy systems for the blind focusing on spatial awareness through the form of a personal wearable technology that is as easy to use and effective at detecting nearby cameras focused on the user's direction
- Success achieved by working in a team to correctly inform the visually impaired of cameras in proximity that are video capturing in the direction of the user as a solution to privacy concerns with modern cameras
- Worked in a professional lab environment as part of an Agile development team to achieve greater 'Visual social sensing' using Google Open Images, OpenCV, and audiovisual devices to help create artificial spatial awareness

S.S. Ronak (Shell) | Edinburgh, IN

Jun 2017 — May 2019

Business Development: Sales Manager

- Increased sales by an average of \$80,000 per year over two years by managing new inventory and customer relations
- Sales targets exceeded as recognized in performance reviews by focusing on consumer needs and trending products, guaranteeing a community friendly outreach to help build a consistent customer base
- Employed techniques like community outreach, customer focused inventory, and directed sales to grow revenue

Leadership | Accomplishments

- IU Computer Science Living Learning Club President (2019 — 2020)
- Dean's List Indiana University (Fall 2020)
- Eagle Scout