RAMAN KHATRI

ramankc24@gmail.com • (571) 778-2230 • ramankhatri.com • Clifton, VA, 20121

EDUCATION

Virginia Tech, B.S. Computer Science   **May 2026**
VT Honors College

EXPERIENCE

AmazonNext Scholar, Amazon   **Jun 2023 — Present**

- Dedicated over **40 hours** a week to learning real-world software topics and algorithmic problem solving, enhancing my understanding of **Data Structures and Algorithms** and solving **over 1,000 Leetcode problems**.
- Leveraged the **mentorship** of current Amazon software engineers to gain an in-depth understanding of industry standards and best practices, while developing key professional relationships.
- Participated in exclusive **in-person** events at Amazon's headquarters in Crystal City, Arlington, Virginia, gaining a unique perspective on the tech industry and its leaders while networking with industry professionals.
- Engaged in rigorous **interview practice** sessions, learning and applying effective strategies for problem-solving and communication in a high-pressure environment in order to excel in technical interviews.

Technologies: Python, Dynamic Programing, Data Structures, Algorithms

Software Engineer Intern, PhitNest   **Jan 2023 — Present**

Mobile application startup that builds a community for gym enthusiasts.

- Participated in weekly **code review**, **pair programming**, and **backlog refinement sessions**.
- Reduced the size of the codebase by 29% through extensive **refactoring**, and expanded **unit testing suite** from 52% to 87% code coverage.
- Streamlined team collaboration through detailed **documentation** in Notion and provided **onboarding support** to foster team cohesion and productivity.
- Reimplemented **React** website with **SvelteKit** to achieve **12% faster** initial loading time, and improved **SEO** through **SSR**.

Technologies: Dart, Flutter, Git, TypeScript, Node.js, Svelte

HP Tech Ventures Extern, HP   **Oct 2022 — Dec 2022**

- Analyzed market data with **SQL**, identifying promising startups for VC executives.
- Created market maps and managed data using **Open Refine and Tableau**, streamlining decision-making.
- Processed data with **Excel** and **SQL** for summary values and trends, presenting findings through data visualization to an audience of HP executives.

PROJECTS

Wordle Solver

- Created **Python-based Wordle solver** using **multiprocessing**, and **entropy** calculations for optimal guessing.
- Achieved **99.70%** winning chance within 6 attempts, averaging **3.67** attempts per game after **10,000** games.
- Optimized performance through testing, resulting in **0.05-second runtime** per test (4x faster than world record).

Technologies: Python, Collections, Multiprocessing, Caching, Entropy, Google Colab

NovaHacks

- Founded NovaHacks, a club offering tech-related **career advising** to underrepresented college students.
- Grew community to **100**+ members in the first month, becoming one of the largest clubs in my college.
- Organized weekly **career-focused seminars** on networking, resume creation, and **LinkedIn optimization**.

NoFearSpeak

- Developed NoFearSpeak, an anonymous harassment reporting app, for a **24-hour** hackathon (HackViolet).
- Implemented a **cross-platform front-end** with Dart and Flutter, connecting back-end to **Firebase** database.
- Designed and launched a project website using **HTML**, **CSS**, and **JavaScript** showcasing the app's features.

Technologies: Dart, Flutter, Git, HTML, CSS, JavaScript, Firebase, Figma

SKILLS

- Code: Dart, Flutter, Java, JavaScript, TypeScript, HTML, CSS, Python, C, C++, Svelte, React, Tensorflow
- Tools: AWS, Git, SQL, Google Colab, OpenRefine, Tableau, Flutter