

Vinayak Prataap

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EDUCATION

Seton Hill University

August 2019 – May 2023

Bachelor of Science in Computer Science; Minor in Mathematics

Greensburg, PA

- Cumulative GPA: 3.95/4.0
- Awards: Dean's List for all semesters from August 2019 to Present.
- Leadership: Computer Science & Technology Club (President).
- Coursework: Data Structures, Algorithms, Machine Learning, Systems Programming, Applied Statistics.

EXPERIENCE

Seton Hill University

August 2021 – Present

Student Programmer & Analyst

Greensburg, PA

- Migrated legacy student portal system, used by 1500+ students every semester, to a brand-new MVC-based larval web application.
- Implemented new and old components and services in PHP, HTML, and CSS through the use of Livewire along with AlpineJS.
- Handled large ORM-based and raw MySQL queries for a sizable, university-level production database with over 2500 tables.

Seton Hill University

August 2021 – Present

Undergraduate Researcher

Greensburg, PA

- Assisted with ongoing research and statistical analysis in the relationship between student GPA, standardized scores, and mental math.
- Managed and deployed campus-wide, qualtrics-based research survey with an outreach of 1500+ students.
- Conducted thorough review of research survey questionnaires to improve survey quality, and optimize and reduce overall questionnaire-taking time by 50%.

Redwood City Ventures

June 2018 - August 2019

Backend Developer

Remote

- Enhanced the backend of Crypto Price Tracker, an application which tracked prices of over 1000+ cryptocurrencies on 30+ exchanges.
- Handled external calls to over 10+ third-party APIs and aggregated cryptocurrency price history using multiple sources to provide the most precise, latest, and highly time-sensitive information.
- Shaved-off high scaling costs of Google Firebase's Javascript cloud functions by migrating parts over 100k+ expensive function calls to a cheaper express-based, cached-powered, cloud-hosted web server alternative.
- Achieved the top iOS app download charts in India (overall) and United States (under the finance category).

PROJECTS

Graph Trivia

June 2020 – Present

Seton Hill University

Greensburg, PA

- Created a web application to quiz 100+ incoming freshmen on their knowledge of 2-dimensional mathematical graphs.
- Created an open-source, typescript-based NPM package that receivind over 400+ downloads per week at its peak.
- Deployed express-typescript-based backend and react-typescript-based frontend on Vercel & AWS lightsail cloud servers.

INVOLVEMENT

Mathematics Mentor & Tutor

August 2020 – Present

Mathematics Enrichment Center, Seton Hill University

Greensburg, PA

- Tutored as a faculty-selected mentor for algebra, trigonometry, calculus, discrete mathematics, and physics.
- Hosted numerous one-on-one, remote and in-person, appointment-based, tutoring sessions for over 100 students requiring assistance in coursework, homework, and exam preparations.
- Conducted study-groups and 20+ exam reviews over the course of 2 years for students requiring assistance with test-taking anxiety, concept review, and exam practice.

SKILLS

- **Backend:** Node.js, Typescript, Express, TypeORM, PostgreSQL, MySQL, NestJS, Jest, GraphQL
- **Frontend:** HTML, CSS, Javascript, React, NextJS, ChakraUI, TailwindCSS
- **Other:** Git, Bash, Linux, Docker, Nginx, Python, Java, Markdown, Latex