

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: 3.96/4.0 (Dean's List August 2019 to August 2022)
- Leadership: Computer Science & Technology Club (President), Mathematics Club (Vice President).
- Coursework: Data Structures, Algorithms, Software Engineering, Machine Learning, Systems Programming, Applied Statistics.

EXPERIENCE

Jenzabar Student Internship

May 2022 – August 2022

Full-Stack Developer Intern

Greensburg, PA

- Accelerated the delivery of a critical university integration platform by 2.5 months as a result of leading the development of an MVP (3500+ projected active users) using agile software development practices.
- Implemented web app authentication using XML-based SAML SSO with Duo 2FA, and role-based authorization using Microsoft Active Directory for 800+ AD groups and 85+ web resources.
- Engineered and deployed 10+ mission-critical features such as an administrator panel, a queue-able automated jobs service, a statistics dashboard, an email service, a form component library, and a CI/CD pipeline using PHP, Laravel, Bitbucket, DeployHQ, and AWS S3.
- Collaborated with a team of 15+ developers and IT professionals to design feature requests, communicate with 30+ stakeholders, meet with SaaS vendors, discuss important deadlines, fix critical bugs/tickets, conduct code reviews, and attend daily scrum meetings.

Seton Hill University

August 2021 – May 2022

Student Programmer & Analyst

Greensburg, PA

- Migrated data and critical software systems from a legacy student portal system to a brand-new university integration platform used by 6500+ monthly active users with 90000+ monthly requests.
- Developed 30+ reusable PHP services connected to 2500+ tables using REST APIs, dedicated packages/libraries, ORM tools, and raw SQL queries in an MVC-based Laravel web application.
- Designed and documented a data migration plan for 300+ Microsoft SQL Server tables with 3000+ fields and 10000+ records, all while maintaining backward compatibility and supporting data for new, highly requested features.
- Built reusable mobile-responsive front-end components utilized in 90+ web resources using PHP, HTML, Tailwind CSS, Livewire, and AlpineJS.

Seton Hill University

August 2021 – May 2022

Undergraduate Researcher

Greensburg, PA

- Assisted with ongoing, grant-funded, research, as a faculty-selected undergraduate researcher, on the relationship between student GPA, standardized scores, and mental math.
- Presented at an undergraduate research conference filled with high-ranking university board members on the research results of a project with an outreach of 1500+ students.
- Conducted 10+ statistical tests on data obtained through an optimized qualtrics-based research survey using Orange and R-language. Performed analyses in collaboration with peer researchers, on 100+ fields and 150+ records.

Redwood City Ventures

June 2018 - August 2019

Backend Developer

Remote

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

INVOLVEMENT

Mathematics Mentor & Tutor

August 2020 – Present

Mathematics Enrichment Center, Seton Hill University

Greensburg, PA

- Tutored as a faculty-selected mentor for physics and math courses by hosting numerous one-on-one, remote, and in-person, appointment-based, tutoring sessions for over 100 students requiring assistance in coursework, homework, and exam preparations.
- Hosted 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, Laravel, PHP
- **Frontend:** HTML, CSS, Javascript, React, NextJS, ChakraUI, TailwindCSS, AlpineJS
- **Other:** Git, Bash, Linux, Docker, Nginx, Python, Java, Markdown, Latex, Shibboleth, AWS S3