

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).
- 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

- Expedited the delivery of a critical university integration platform by 1.5 months as a result of leading the development of an MVP with tight deadlines and demanding features through agile software development practices.
- Implemented authentication into a university integration platform using XML-based SAML SSO with Duo 2fa, and role-based authorization using Microsoft Active Directory for over 800+ AD groups and 85+ resources.
- Engineered and deployed mission-critical features such as an administrator panel, statistics dashboard, automated jobs, CI/CD pipeline, and client-facing forms used by 1000+ students daily in PHP, Laravel, Pest (TDD), Tailwind CSS, Bitbucket, and DeployHQ.
- Collaborated with a team of 15+ IT professionals and developers to design requested features, communicate with 30+ stakeholders, discuss important deadlines, fix critical bugs/tickets, perform code-reviews, and 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 over 2000+ active users and 50000+ requests per week.
- Developed over 20+ PHP services connected to third-party student information systems containing over 2500+ tables, through the use of APIs, ORM, and raw SQL queries through an MVC-based Laravel web application.
- Built reusable, mobile-responsive front-end components which were to be utilized in 80+ forms used by 30+ departments across the university using PHP, HTML, Tailwind CSS, Livewire, and AlpineJS.
- 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.

Seton Hill University

August 2021 – May 2022

Undergraduate Researcher

Greensburg, PA

- Assisted with ongoing, grant-funded, research on the relationship between student GPA, standardized scores, and mental math as a faculty-selected undergraduate researcher.
- Managed and deployed campus-wide, qualtrics-based research survey with an outreach of 1500+ students and optimized survey-taking time and quality by 55% through a rigorous review of qualtrics analytics.
- Conducted several statistical tests/analyses on 100+ fields and 150+ records, in collaboration with fellow researchers, using orange and R-language and presented research results at an undergraduate research conference filled with high-ranking university board members.

Redwood City Ventures

June 2018 - August 2019

Backend Developer

Remote

- Enhanced the backend of Crypto Price Tracker, an application that tracked prices of over 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 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 expensive function calls (over 100k/week) to a cheaper 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