KEVIN CASTRO

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EDUCATION

Princeton University | *Bachelor of Arts in Computer Science*   **September 2019 - May 2023**
- Relevant Coursework: Algorithms and Data Structures, Machine Learning, Reasoning about Computation, Advanced Programming Techniques, Data Science, Economics and Computing, Natural Language Processing, Computer Graphics, Computer System Design

EXPERIENCE

Freelance Web Developer | *Self-Employed*   **September 2024 – Present**
- Developed a full-stack web application using Next.js and TypeScript, integrating a PostgreSQL database for efficient data management and storage.
- Implemented a menu-driven Point of Sale (POS) system with integrated secure payment processing via Stripe API, enabling seamless transactions, real-time inventory tracking, and operational efficiency.

Bioverse | *Full Stack Software Engineer*   **April 2024 – August 2024**
- Designed, architected, and implemented a robust tagging system for order management, enabling efficient revision and tracking by company personnel, which increased the number of orders completed by 20%.
- Created 50+ responsive web pages by translating Figma designs into functional user interfaces, ensuring consistency with design specifications and enhancing user experience.
- Developed automated scripts to track status of products using pharmacy and EasyPost APIs

Mantula Solar Energy | *Software Engineer Intern*   **June 2022 – August 2022**
- Developed a responsive and interactive web application using HTML, CSS, and React
- Optimized rendering speed through Typescript overhaul and image compression resulting in a 30% reduction in loading time for prospective customers
- Engineered an automated contact sheet system, featuring real-time email distribution to designated company recipients
- Reviewed and resolved code issues presented by other interns

Princeton Unversity Mcgraw Center | *Tutor*   **September 2021 – December 2021**
- Provided focused and 1-on-1 assistance to help better conceptualize statistical and coding fundamentals
- Led group interaction and advanced coding exercises between over 40 students, overseeing collaborative problem solving and complete understanding of statistical theory and reasoning in the social sciences

PROJECTS

VidLoad | *React, Typescript, Node.js, Prisma, PostgreSQL, HTML, CSS*   **January 2024**
- Developed a video streaming application that enables users to upload, edit, and view videos
- Constructed a Node.js API server for video and image uploads to an AWS S3 bucket, video and image transfer via AWS CloudFront, and user data storage to a PostgreSQL database
- Implemented an authentication system with JSON Web Tokens for user verification and a key derivation function based on the PBKDF2 algorithm and SHA-256 hashing for secure password management

Tigerfit | *Python, Flask, PostgreSQL, Javascript, HTML, CSS*   **October 2021**
- Developed a full-stack fitness web application to track workouts, visualize progress, and promote healthy lifestyles on Princeton University's campus, attracting over 100 users.
- Provided suite of charting and graphing technologies to provide in-depth analytics and visual insights of user data such as weight and lifted weight
- Implemented CAS (Central Authentication Service) integration to establish a robust and secure user authentication process, ensuring that only authorized Princeton University students access the app
- Integrated interactive Scalable Vector Graphics made with Adobe, enabling user interactions that subsequently trigger query operations

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, Typescript, HTML/CSS, R
Frameworks: React, Next.js, Express, Node.js, Flask
Libraries & Tools:: pandas, NumPy, Tailwind CSS, Bootstrap