BRYAN OLIVEIRA

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EDUCATION

California Institute of Technology **Expected Jun. 2026**
Bachelor of Science in Computer Science | *GPA: 3.7* *Pasadena, CA*

Relevant Coursework: Data Structures, Algorithms, Object-Oriented Programming, Software Design, Software Engineering, Network Architecture, Systems Programming, Relational Databases, Web Development, Operating Systems, Compilers, Machine Learning, Deep Learning Systems, Functional Programming

EXPERIENCE

Technical Intern - Security & Financial Group **Jun. 2024 – Sep. 2024**
Navy Federal Credit Union *Vienna, VA*

- Built intranet SharePoint portals for 60+ internal users (Security, Financial, and Fraud teams), improving information access and onboarding flows in a hybrid environment.
- Led development of a JavaScript-based organizational chart web app supporting real-time updates for $\sim$24,000 employees, and authored a developer guide to ensure maintainability and facilitate onboarding.
- Designed UI icons/infographics with reusable web components, reinforcing branding and UX consistency.

PROJECTS

Liveable: Full-stack Affordability Platform | *TypeScript, Next.js, React, Prisma* **liveable-zeta.vercel.app**

- Built server-rendered home affordability tools in Next.js with a Prisma ORM and MySQL backend for housing and salary data retrieval and processing.
- Optimized queries with indexes to reduce filtering time by an average of 5.2% in benchmarks, and implemented CSS media queries to ensure a mobile-friendly, responsive user experience.
- Implemented trie-based autocomplete and GET API routes to deliver instant job and location suggestions.
- Designed interactive visualizations including mortgage/job affordability calculators with Chart.js and a state-level affordability map with GeoJSON and Leaflet.

Comeback: Full-stack E-commerce Site with RESTful API | *JavaScript, Node.js, Express* **GitHub Repo**

- Developed a RESTful API with GET and POST routes for product catalog, cart, loyalty program, favorites, and feedback, culminating in a fully functional online storefront.
- Built front-end interfaces with HTML, CSS, and JavaScript, and implemented backend logic in Node.js and Express for route handling, validation, and error management.
- Implemented user authentication and a feedback form to enable secure signup/login and CRUD operations.

Affor-db: House Affordability Database Application | *Python, MySQL* **GitHub Repo**

- Co-created a Python command-line tool integrating housing, mortgage, and job postings datasets.
- Enabled users to filter through jobs and companies to generate personalized affordability metrics.
- Designed a terminal interface prompting users with choices and questions to automatically construct SQL queries, aggregating and filtering data across tables for individualized affordability reports.

TECHNICAL SKILLS

Languages: Python, C, C++, JavaScript, TypeScript, HTML, CSS, SQL, Java
Front-end: React, Next.js, TailwindCSS
Back-end: Node.js, Express, Prisma, REST APIs, Flask
DevOps & Other: Git, Linux/WSL, Vercel

LEADERSHIP / EXTRACURRICULARS

Caltech Hispanic and Latino Association (SHPE Chapter)
Outreach Coordinator **Jun. 2025 – Present**
Social Director **Jun. 2024 – Jun. 2025**
Caltech First-Year Success Research Institute
Peer Mentor **Jul. 2023 – Sep. 2023**