

Sebastian Vargas

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EDUCATION

University of California, Berkeley - College of Engineering

Berkeley, CA

B.S. Electrical Engineering & Computer Science

Expected Graduation: May 2028

- **GPA:** 4.00/4.00 | **Units:** 65.44 / 120 | **Awards:** [Dean's List](#)
- **Coursework:** Efficient Algorithms & Intractable Problems, Data Structures, Machine Structures, Discrete Math & Probability, Signals & Systems, Designing Information Devices & Systems, Circuits & Devices, Multivariable Calculus
- **Upcoming Coursework:** Operating Systems & System Programming, Computer Security, Networks: Models, Processes & Algorithms

SKILLS

Languages: Python, Java (backend), JavaScript/TypeScript/HTML/CSS (frontend), C/C++ (systems), SQL (databases), RISC-V, Scheme
Frameworks & Libraries: React.js, React Native, Node.js, Express.js, Flask, Django, NumPy, Pandas, TensorFlow, PyTorch, scikit-learn
Cloud Platforms & Databases: AWS, Microsoft Azure, Firebase, PostgreSQL, MySQL, MongoDB, Firestore, REST APIs

PROFESSIONAL EXPERIENCE

Google | Associate Software Developer Intern | New York, New York

May 2025 - Aug 2025

- Developed change history functionality for Google's internal performance management system, processing 10,000+ quarterly performance records and enabling users to view modifications to quarterly expectations and tasks with full audit trail capabilities.
- Owned the full lifecycle with end-to-end implementation, including building APIs to pull change history from Google internal datastores and developing reusable front-end components reducing development time by 30%.
- Implemented comprehensive testing suite including unit, integration, accessibility, load, and bug testing.
- Designed and deployed role-based access control (RBAC) system with OAuth 2.0 authentication, ensuring compliance for sensitive employee performance data across 150,000+ users.

NextEra Energy | Technical Project Manager, Contract | Juno Beach, Florida

Sep 2025 - Present

- Architected "Renewables RegWatch," an enterprise RAG (Retrieval-Augmented Generation) AI solution leveraging AWS Bedrock and Amazon Knowledge Bases to deliver automated regulatory intelligence, reducing manual research time by 75%
- Owned end-to-end project lifecycle, from client scoping and system design to the delivery of key project milestones.
- Managed cross-functional team of 5 engineers developing scalable web scraping infrastructure (Beautiful Soup, Selenium), ETL data pipeline, vector database integration with AWS Knowledge Bases, automated PDF report generation, and email distribution system.

AMD | Full Stack Engineer, Contract | Santa Clara, California

Sep 2024 - Jan 2025

- Streamlined legal discovery processes, reducing data retrieval time by 60% and supporting 50+ litigation cases globally.
- Developed single-page application (SPA) using React.js, implemented search functionality, filtering, and data visualization dashboards.
- Built backend infrastructure on Microsoft Azure using App Service, Azure Functions, Azure SQL Database, and Blob Storage.

Lenovo | Full Stack Engineer, Contract | Morrisville, North Carolina

Jan 2025 - May 2025

- Collaborated with a cross-functional team on a Lenovo case study evaluating AI integration in software development.
- Demonstrated 40% productivity improvement through a balanced hybrid approach leveraging AI for 70% of implementation tasks while maintaining manual oversight for 3 core features across a 12 week development cycle.

PERSONAL PROJECTS & EXTRACURRICULARS

UpSync Consulting | Vice President of Projects | Berkeley, California

Sep 2025 - Present

- Led delivery of 5 client projects valued at \$100,000 dollars, managing a team of 10 strategy and technical PMs.
- Engineered automation of sourcing workflows, processing ~10,000 emails weekly with 70% reduction in manual effort.
- Met with professionals at industry firms to pitch club capabilities in automation, AI, and ML, reviewing 100+ internal proposals to refine project scopes using client feedback and iterative development.

Robotics | Robot Build Manager | Danville, California

Fall 2023 - Spring 2024

- Directed 40 member FRC team, coordinating cross-functional subteams to build a competition robot with omnidirectional drivetrain, CV-enabled precision targeting, automated intake system, and dynamic balancing capabilities.

Resourcify | Lead Web Developer | Pleasanton, California

Sep 2022 - May 2023

- Collaborated with Pleasanton Muslim Community Center to identify key challenges faced by refugees in the Bay Area.
- Took initiative and developed a React Native application providing information on housing, schools, and local resources.

Mighty Coders | Volunteer Instructor | Bothell, Washington

Mar 2023 - April 2023

- Tutored 20 students from underrepresented backgrounds on coding projects in python, C#, and javascript.
- Wrote detailed progress reports to track and ensure genuine growth in students' learning outcomes.