

# Bennett Bishop

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## WORK EXPERIENCE

### Founding AI Engineer

*Payflow AI*

**Aug 2025 - Feb 2026**

*San Francisco, CA*

- Helped close multiple >\$100M ARR companies by working as a forward-deployed engineer, responding to user feedback within minutes and delivering requested features within 1 to 48 hours.
- Expanded supported use cases from 1 to 100+ by replacing a pandas-based workflow with a LangGraph agent capable of direct spreadsheet manipulation, preserving formulas and formatting for the first time.
- Increased usage by 400% by architecting AI-powered add-ins for Excel, Google Sheets, PowerPoint, and Google Slides using React/TypeScript, Office.js, Apps Script and Digital Ocean.
- Improved accuracy of AI-generated financial charts and tables by 15% and eliminated a third-party subscription by building a custom generative UI library.
- Decreased AI error detection time by ~90% by building an LLM-as-a-judge/code-based evaluator framework with real-time Slack alerts after every production request, tracking financial accuracy and silent failures.

### AI Engineer

*UCSB Cheadle Center for Biodiversity and Ecological Restoration*

**Jan 2025 - Jun 2025**

*Santa Barbara, CA*

- Saved 2000 person-years in taxonomy research by indexing thousands of pages of domain specific literature, architected a multimodal RAG chatbot using Langchain, GPT-4, CLIP embeddings and QDrant vector database.
- Mentored a team of 5 researchers, taught fundamentals of NLP and information retrieval to team and lab directors.

### Machine Learning Engineer (Intern)

*UCSB Alumni Association*

**Aug 2024 - Jun 2025**

*Santa Barbara, CA*

- Decreased manual processing time by 150+ hours annually (98% reduction) by engineering an HTML content standardization system using Python, BeautifulSoup, and GPT-4, with an intuitive user interface for company interns.
- Applied prompt engineering with example-based pattern matching, achieving a BLEU score of 0.7.

### Full-Stack Software Engineer

*Brainsink*

**Jun 2023 - Nov 2024**

*San Francisco, CA*

- Engineered a collaborative PDF annotation platform enabling teams to share documents with threaded discussions, implemented a TypeScript/React frontend and AWS S3/GraphQL/PostgreSQL backend with 25+ API endpoints.
- Reduced information retrieval time by 85% by deploying a RAG chatbot with user + project specific memory, indexing documents with OpenAI embeddings, allowing users to query and extract insights from project materials.

### Software Engineer (Intern)

*Amotions AI*

**Dec 2022 - Sep 2023**

*San Francisco, CA*

- Secured initial business client by implementing a critical feature enabling users to review questionnaire responses.
- Migrated 70% of the site from a no-code platform to React/TypeScript, built an XML sitemap enhancing SEO by 80%.

## EDUCATION

### University of California, Santa Barbara

*B.S., Statistics and Data Science; B.A., Philosophy; Certificate, Technology Management*

**June 2025**

*Santa Barbara, CA*

**Relevant Coursework:** Venture Capital, Business Strategy, Marketing, Data Structures & Algorithms, Time Series, Regression Analysis, Machine Learning, Philosophy of Computing & AI

## SKILLS

**SWE:** Javascript/TypeScript, Python, Next.js, Node.js, React, TailwindCSS, FastAPI, GraphQL

**ML / AI:** PyTorch, TensorFlow, Scikit-learn, NumPy, R, Roboflow, LangGraph, LangSmith, LangChain, Pinecone, FAISS, LlamaIndex, ChromaDB, ML Algorithms (SVMs, PCA, XGBoost), NLP, RAG, AI Agents, GenAI, Deep Learning Algorithms (MLPs, CNNs, LLMs)

**Infrastructure:** Docker, Digital Ocean, Kubernetes, AWS, GCP, PostgreSQL, Supabase, Redis