

Jonathan Brunt • Software Engineer

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Summary

A Software Engineer and Computer Scientist with a track record of delivering effective solutions across demanding technological, business, and educational landscapes. Possesses extensive knowledge of Artificial Intelligence, Machine Learning, full-stack web development, relational and non-relational databases, servers, hosting environments, and networks. Recognized for effectively managing team interactions and driving excellence in testing, quality assurance, and security concerns throughout the software development lifecycle.

Technology Skills

AI Engineering: Generative AI, RAG, Vector Databases, Fine-Tuning, Prompt Optimization, Cloud Computing, LLMOps, Ethics

Machine Learning: NLP, Computer Vision, MLOps, PyTorch, Data Science, Statistics

Full-Stack Engineering: React, Next.js, Serverless Functions, Node, Express, PostgreSQL, MongoDB, Tailwind, Docker, Kubernetes, Project Management

Programming Languages: Python, JavaScript/TypeScript, C

Education: Curriculum Development, Pedagogy, Management

Professional Experience

BloomTech

5/2024 - Present

Remote: Part-Time

Senior Software Engineer, AI/ML & Full-Stack

2/2025 - Present

Leading engineering initiatives focused on internal tooling, client solutions, and data science curriculum.

- Design and iterate on advanced Machine Learning algorithms to support internal automation and analytics
- Collaborate directly with clients to architect and deliver AI/ML solutions tailored to specific business needs
- Contribute to the evolution of the company's data science curriculum, emphasizing clarity, rigor, and real-world applicability

AI Engineering Instructor

5/2024 - 2/2025

Instructing an Artificial Intelligence course for senior engineers and executives covering RAG, agents, multi-agent systems, fine-tuning, tool-calling, and LLM observability.

- Create and iterate the core curriculum
- Lecture bi-weekly on various topics and technologies, including LangGraph, LangSmith, Langfuse, LangChain, LangServe, and CrewAI
- Supervise new instructors, assistants, curriculum developers, and software engineers

Sensay - *Senior Research Engineer, AI/ML*

8/2024 - Present

Remote: Full-Time

Researching, architecting, and developing multimodal Artificial Intelligence and Machine Learning solutions.

- Research, design, and integrate multimodal AI capabilities, including NLP, image generation, speech, and computer vision, to enhance the functionality of the core product
- Advise and assist senior management on technical matters and client interactions
- Implement advanced RAG techniques to improve the quality of GenAI responses
- Architected an API leveraging an uncensored open-source LLM to extract features from complex unstructured data involving interpersonal relationships and individual memories

Independent Consultant - *Senior Software Engineer*

9/2023 - 8/2024

Remote

Assisted an early-stage startup across its technology stack.

- Led the integration of LLM-based NLP to enhance product features and user experience
- Developed intuitive and dynamic user interfaces with Next.js
- Optimized embeddings and vector database operations to ensure efficient data handling and retrieval
- Integrated scalable serverless AWS functions to power AI-driven components, ensuring high performance and reliability

Mimo - Senior Software Engineer, Curriculum Developer

2/2022 - 7/2023

Remote

Developed and maintained educational curriculum, leveraging AI technologies to enhance user experience and streamline curriculum development processes. Wrote internal technical documentation and pioneered new curriculum modalities.

- Fine-tuned and implemented GPT-3 for the curriculum development process
- Authored Mimo's inaugural technical articles, which served as a benchmark for the format and style of all subsequent company articles
- Responsible for extensive planning, developing, and reviewing of new backend content developed for release to application users and bootcamp participants

Tadah Tech - Software Engineer

11/2019 - 2/2022

Remote

Developed and scaled full-stack applications while managing the UI team and collaborating with the design team, management, and clients.

- Implemented a custom internal software system to ensure that performance, best practices, accessibility, SEO, and the standards of a Progressive Web Application were all prioritized and that expectations were exceeded at all stages of development
- Planned and built production applications from inception through completion

BloomTech - Software Engineer, Teaching Assistant

6/2018 - 11/2019

Remote

In various roles, led and contributed to educational programs in Computer Science, focusing on programming languages and web technologies.

- Pioneered the Teaching Assistant program in the Computer Science Department, resulting in a 15% increase in student Sprint pass rates within three weeks
- As a Section Supervisor, supervised and mentored 40+ students and six Project Managers, improving the student passing rate from 60% to 98% upon completion of the didactic portion of the course
- Initiated and later led the Master Based Progression program, enabling 88% of students to meet an 80% passing standard and progress to capstone projects and graduation
- Conducted daily one-on-one consultations as a Project Manager, including code reviews and skill development, leading to 100% of students achieving an 80% passing standard on all weekly exams

BPM Marketing - Software Engineer

8/2018 - 11/2018

Remote

Hired on a temporary, part-time basis to develop, maintain, and scale a portfolio of full-stack websites and applications for clients.

- Scaled the server of a movie premiere website in production to reach 15 million consumers
- Improved the user interface and user experience of multiple client sites

Independent Consultant - Web Developer

8/2017 - 8/2018

Houston, TX / Remote

Executed multiple full-stack development projects for independent clients.

Education

University of Texas Health Science Center, Houston, TX

Public Health / Epidemiology / Biostatistics