

Berat Ercevik

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EDUCATION

University of California - Santa Cruz

Santa Cruz, CA

Bachelor of Science in Computer Science, GPA: 4.0/4.0

September 2024 – December 2026

Relevant Coursework

DSA, AI, ML, Computer Architecture, Compiler Design, Computer Systems Design, Software Engineering

Publications

“SkillOptimizer: Agent Skill Optimization Through Subskills Without Task Supervision.” *ICML 2026 AIWILD Workshop*, [Link](#)

“@GrokSet: Multi-party Human-LLM Interactions in Social Media.” *arXiv:2602.21236*, Feb. 2026. [Link](#)

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C/C++, PostgreSQL, NoSQL

Tools: Linux, Git, AWS, Tmux, Hydra, Runpod, Netlify, Playwright

Frameworks: React, NextJS, Express, React Native, Expo, Jest, LangChain, Ollama

Knowledge: OOP, Data Structures and Algorithms, Artificial Intelligence, Machine Learning, Large Language Models, Multi-agent systems, RAG, RESTful APIs, Concurrency & Parallelism, Agile SCRUM Methodology

EXPERIENCE

AI Systems Engineer Intern @ Stealth Startup | *Python, Google ADK, GCP, Docker* Apr. 2026 – Aug. 2026

- Building a multi-agent system that creates software using multimodal and source-based evidence.
- Designed specialized agent workflows with structured handoffs, persistent execution state, and inspectable artifacts to improve reliability and traceability.
- Developed a Ralph-style discovery loop for the understanding pipeline, using iterative evidence collection, specialist review, and quality gates to reject unsupported claims before producing the final structured specification.
- Integrated a Claude Code-based agentic coding harness into a sandboxed execution environment with schema validation, automated build and replay checks, deterministic quality gates, and iterative repair until system-defined acceptance criteria are met.

DSA Tutor @ UCSC | *Student Support, Collaboration, Communication*

Apr. 2025 – Jun. 2026

- Tutor 100+ upper-division students per quarter through office hours and project support, clarifying data structures, algorithmic tradeoffs, and debugging strategies.
- Partner with faculty and TAs to resolve grading discrepancies and maintain consistent evaluation.

LLM Researcher @ Algotaverse | *LLMs, Python, Hydra, Tmux, Runpod, SQLite*

Jun. 2025 – Jan. 2026

- Created and analyzed a 1M+ tweet dataset of Grok conversations to support research in LLM-user interactions.
- Fine-tuned BERTopic model on conversation-level embeddings to extract value-laden topics for large-scale analysis.
- Built a high-throughput scraping pipeline using SQLite WAL mode for concurrent data ingestion.
- Implemented and utilized a verbose logging/debugging system to reduce API calls and compute costs by 50%.

SWE Intern @ Trustd.ai | *React, NextJS, TypeScript, MongoDB, AWS, Git, SCRUM*

Oct. 2024 – Feb. 2025

- Built an administrative dashboard and REST-backed MongoDB workflows for managing thousands of user records through CRUD operations, including Zod data validation and error handling.
- Implemented AWS Amplify CI/CD and expanded Playwright and Jest coverage by 60%, catching regressions before release.

PROJECTS

Vitae | *NextJS, TypeScript, Jest, PostgreSQL, Docker, CI/CD, Neon, Clerk, SCRUM*

Jan. 2026 – Jun. 2026

- Developed a resume-building and version-control platform in an Agile/Scrum environment with a team of 5.
- Provisioned PostgreSQL locally via Docker and in production with Neon, optimizing API queries to reduce average response latency by 30% while ensuring reliable structured data persistence.
- Integrated Clerk authentication and implemented GitHub Actions and Netlify CI/CD with Jest and strict type and style checking, reducing merge conflicts by 70% while sustaining 99.9% production uptime.

AI Discord Chatbot | *Python, discord.py, Ollama, AWS, LangChain, SQL*

Aug. 2024 – Sept. 2024

- Built a Llama 3-powered Discord assistant and integrated it with multi-agent RAG capabilities with self-correction mechanisms to store over 10K+ indexed messages and serve 50+ community members.