

Hunter Baker

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Skills

Programming Languages: Python, Java, C, C#, HTML/CSS/JS, TypeScript

Frameworks & Libraries: Flask, Spring Boot, Next.js

Tools & Platforms: Git, Linux, PostgreSQL, Redis, Docker, AWS, Agile / Scrum, REST APIs, GraphQL

Education

Laurel Ridge Community College – Associates in General Studies, 4.00 GPA

August 2023

James Madison University – Bachelors in Computer Science, 3.67 GPA

December 2025

- Societies: Upsilon Pi Epsilon (CS Honor Society), Alpha Lambda Delta
- Honors: Cum Laude, President's List, Dean's List
- Relevant Coursework: Operating Systems, Computer Systems, Data Structures & Algorithms, Applied Algorithms, Software Engineering, Database Systems, Application Development

Projects

Beast[code]: LeetCode Discord Bot

github.com/hutnerr/leetcode-bot

- Deployed a Discord bot across multiple servers delivering configurable daily coding problems and contest alerts with per-server scheduling and difficulty filtering, self-hosted on a Raspberry Pi with 8+ months of continuous uptime.
- Integrated the unofficial LeetCode GraphQL API to fetch real-time problems and contest data, implementing the observer pattern with custom time-based buckets to route notifications based on per-server configurations.
- Engineered an in-memory caching layer over JSON file storage with a custom Synchronizer to prevent cache/disk inconsistencies across concurrent reads and writes.

LOLSUMMD: Mastery Aggregator for League of Legends

github.com/hutnerr/lolsummd

- Built and deployed a full-stack web app that aggregates League of Legends champion mastery data across up to 10 accounts into a unified view, using Flask, HTML/CSS/JS, and the Riot Games API.
- Reduced redundant API calls by implementing a two-tier Redis caching strategy - permanently caching account lookups and applying a 1-hour TTL on mastery data to balance freshness with performance.

ToneForge

github.com/hutnerr/toneforge

- Designed and deployed a REST API in Java using Spring Boot and Docker, hosted on AWS, that converts user-submitted text into 10+ distinct character voices.
- Implemented the Strategy pattern to encapsulate each conversion persona as an interchangeable behavior, enabling clean extensibility for adding new styles without modifying core logic.
- Integrated the Gemini API for natural language transformation and built a lightweight GitHub Pages frontend to demo the API.

NavSys

github.com/hutnerr/navsys

- Built a fully functional GPS navigation system in Java from scratch, integrating a USB satellite receiver to parse real-time GPGGA sentences from GPS satellites into live location updates using a custom parser.
- Modeled road networks as a graph of streets, intersections, and segments using a custom geographic shape hierarchy, implementing both Dijkstra's and Bellman-Ford for pathfinding and benchmarking their performance characteristics.
- Architected the application using MVC, Observer, and Strategy patterns to cleanly separate concerns across navigation logic, live data updates, and interchangeable pathfinding algorithms.

Experience

ITAD Technician, Wisetek Solutions – Winchester, Virginia

July 2021 - April 2023 & May 2024 - March 2025

- Led a 6-person data-entry team maintaining high accuracy and daily processing quotas, while refurbishing and testing enterprise hardware (servers, switches, desktops, laptops) for reuse, resale, or recycling.
- Redesigned physical processing steps by identifying workflow inefficiencies, reducing per-technician processing time by ~30 minutes daily across four warehouse departments.