Colin Gorski

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EDUCATION

University of Connecticut

B.S. Computer Science, May 2025   *Storrs, CT*

- Relevant Coursework: Software Engineering, Cloud Computing, Data Structures and Algorithms, Artificial Intelligence, Systems Programming, Computer Architecture, Databases

EXPERIENCE

Software Engineering Intern   May 2024 – Present

Lockheed Martin – Sikorsky   *Stratford, CT*

- Designed and delivered a full-stack job-tracking system (C#, .NET Core, MSSQL) that improved shop-floor observability for 200+ technicians; reducing search time per job by over 50%
- Optimized and improved system reliability of real-time robotic pinning control loop (C#, multi-threading) decreasing application load time by 80% and cycle time by 20%
- Spearheaded development of an MVP WPF harness-diagramming tool (C#, XAML, Oracle SQL), now in pilot to replace a 20-year legacy PDF workflow–projected to cut operator error and maintenance effort

Founder & Engineer   July 2024 – Present

ForeAdvantage Golf   *Fairfield, CT*

- Shipped a Next.js 15 SaaS that monitors 610+ golf courses and alerts users to tee times via a Telegram bot
- Built serverless AWS backend with Step Functions polling every 2 min, caching tee times for viewing
- Integrated Stripe subscriptions, NextAuth.js (Google OAuth), 1-click user telegram notification setup
- Deployed with zero-downtime CI/CD with vercel and AWS CDK; 99.9 % uptime, $0.08 cost per 1k searches
- Grew to 20+ users within 6 months; surfaced 1,300+ tee times; p95 time-to-success of 3.6 hours

Undergraduate Teaching Assistant – Systems Programming   Aug 2023 – May 2024

University of Connecticut   *Storrs, CT*

- Maintained Dockerized autograders and CI pipelines for 12 C assignments used by 300+ students; integrated GitHub Actions and unit-tests enforce test-driven development standards.
- Led weekly lab section (20–25 students); began memory-leak workshops, resulting median mid-term score +11pts

SELECTED PROJECTS

Synchrony Analytics - Capstone | *Next.js 15, TypeScript, MongoDB, AWS*   Sep. 2024 – May 2025

- Created Next.js dashboard with Recharts heatmaps and KPI filters that provide real-time observability into Core Web Vitals and user behavior relevant to Synchrony's observability mission.
- Architected MongoDB ingestion pipeline tested to 500k events/day; median query latency 45 ms
- Deployed API Gateway endpoints + serverless AWS Lambda event ingestion at $0.01 per 7.2K events
- Led development on team of 3 and worked closely with Synchrony product owners during weekly syncs

Magic Folder - Open Source | *C++20, Faiss, Ollama, SQLite, SQLCipher, zstd*   May. 2025 – Present

- Built privacy-first, semantic file-manager that indexes and searches 10k+ local documents without cloud calls
- Architected high-performance embedding pipeline (C++) that streams files to Ollama model of choice
- Integrated Faiss for sub-50 ms vector similarity search across embeddings; 95% top-5 precision on user queries
- Designed a SQLite schema for metadata and vector embeddings; enforced encryption-at-rest via SQLCipher with OS-level key management; and applied Zstandard (zstd) compression to minimize storage footprint.

TECHNICAL SKILLS

Languages: C, C++, C#, Java, Python, SQL, TypeScript/JavaScript
Frontend: Next.js 15, React, Recharts, shadcn/ui, Tailwind CSS, Vue.js
Backend: .NET, Express, Node.js, AWS Lambda, Step Functions
Databases: MongoDB, MySQL, SQL Server, DynamoDB, SQLite, Faiss
Cloud / DevOps: AWS (CDK, API Gateway, CloudFront, Cognito, S3, EC2), Vercel, Docker, GitHub Actions
APIs / Payments: Stripe, Auth0, OAuth 2.0, REST
Tools: Git, GitHub, GitLab, Swagger, Postman, Figma, Trello, Tailscale