

Grant Pennington

Software Engineer (Full-Stack)

grant_pennington8@outlook.com | (502) 905-1134 | Louisville, KY | grant-pennington.com | github.com/GrantPennington

PROFILE

Full-stack software engineer shipping end-to-end web apps with React/Next.js, Node/Express, and Postgres/MongoDB. Built internal tools used by employees and AI-powered apps using the OpenAI API. Recent work includes Next.js + Postgres projects using Supabase and Neon + Prisma, plus a live browser blackjack app (Downcard).

SKILLS

Frontend: React, Next.js, HTML, CSS, Material UI (MUI), Chakra UI

Backend: Node.js, Express, REST APIs, Authentication (JWT/Session), Error handling

Data: Postgres, Prisma, MongoDB, Mongoose, MongoDB Atlas

Platforms: Supabase, Neon, Firebase

DevOps/Tools: Docker, Docker Desktop, Git/Github, Vercel, Heroku, API testing (Postman)

AI/LLM: OpenAI API, LLM app integration, AI-assisted dev workflows (Claude Code agents, ChatGPT)

Infra/OS: Nginx, Linux, WSL, self-hosting on Raspberry Pi, basic networking (domains/subdomains)

PROFESSIONAL EXPERIENCE

Bailey Property Management, Tech Lead & Software Engineer

06/2023 – 07/2025 | Louisville, KY

- Built and maintained internal web tools used by employees to replace manual workflows and reduce operational friction.
- Developed backend services and REST APIs with Node.js/Express, focusing on maintainable structure and reliable error handling.
- Implemented responsive React UIs using Material UI / Chakra UI aligned to real user workflows.
- Integrated MongoDB data models and business logic to support day-to-day operational processes.

MXD Process, Software Engineer Intern

05/2020 – 08/2020 | Jeffersonville, IN

- Contributed to a production React application used by customers to configure custom tanks/vats (“TankDesigner”), implementing and refining frontend features in an existing codebase.
- Participated in daily standups and team collaboration, communicating progress and shipping incremental improvements.
- Ramp-up experience in a mature codebase: read unfamiliar modules, followed established patterns, and delivered safe updates without breaking existing behavior.

PROJECTS

Downcard, Single-Player Blackjack (Live) | downcard.grant-pennington.com

- Built and deployed a playable blackjack web app with complete game flow (deal/hit/stand, dealer logic, win/lose states) and a clean UI.
- Shipped publicly under a dedicated subdomain, demonstrating end-to-end delivery from build → deploy → live iteration.
- Used Claude Code agent workflows to break features into small deliverables and iterate quickly on gameplay logic and UI.

Next.js + Postgres Projects, Supabase / Neon + Prisma

- Built full-stack Next.js applications backed by Postgres using Supabase and Neon + Prisma for schema-driven development and data access.
- Implemented core product flows (CRUD dashboards, validation, and server/client integration) with a focus on maintainable structure.

Smart Note Summarizer, OpenAI API

- Developed an OpenAI-powered summarization app that turns user content into structured summaries with a clean workflow.
- Implemented front-to-back integration (UI → API → model response), emphasizing reliability and error handling.

EDUCATION

B.A. Computer Science, Bellarmine University

2020 – 2023 | Louisville, KY