

Joseph Nechleba

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EDUCATION

Cornell University – B.A. Computer Science

Ithaca, NY | May 2019

Relevant coursework: Algorithms • Operating Systems • Machine Learning • Web Applications

SKILLS

Frontend: Angular • React • Next.js • Vue.js • JavaScript • TypeScript • D3.js • Tailwind

Backend: FastAPI • Node.js • Express • Nest.js • MongoDB • Mongoose • PostgreSQL

Other: Python • Java • Go • Docker • AWS • Selenium • CI/CD (GitHub Actions, Heroku)

SELECTED PROJECTS

Semantic GPT Moodboard Generator

Live App: <https://moodboard-frontend-ten.vercel.app/> • API: <https://moodboard.fly.dev/docs>

Stack: FastAPI • OpenAI • PostgreSQL • Redis • React • Tailwind • Docker

- Full-stack AI app to auto-generate moodboards using GPT-based captioning + semantic vector search.
- Scalable async job system with Redis + ARQ for embedding + K-Means clustering.
- Dockerized FastAPI backend on Fly.io; React/Tailwind frontend on Vercel with GitHub Actions CI/CD.

Pokémon Team Builder

Stack: Angular 19 • Node.js • Express • MongoDB • Mongoose • JWT

- Full-stack CRUD app with infinite scrolling and protected routes for team creation + stat tracking.
 - Integrated evolution chains, sortable stat tables, and real-time filtering.
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PROFESSIONAL EXPERIENCE

InterSystems HealthShare – Senior Software Developer Boston, MA | July 2019 – July 2022

- Built reusable Angular/TypeScript component library adopted by 5+ teams; improved UI consistency and reduced delivery time 20%.
- Modernized legacy AngularJS app to Angular 15, cutting build size by 50% and ensuring long-term maintainability.
- Maintained iframe-based navigation system enabling seamless transitions between distributed, cross-server apps.

Freelance Developer / World Expedition

Remote | July 2022 – May 2025

- Delivered freelance projects like [Trattoria Pelliccia](#) (Angular-based restaurant site; 1k+ organic views/mo).
- Circumnavigated the globe across 19 countries while working internationally (developer, English teacher, hospitality) and honing language and cross-cultural skills.

Vimbly – Full Stack Developer Intern

New York, NY | Summer 2018

- Built React UI, SQL schemas, and Node middleware to support Catch Fashion's e-commerce integration.