Joseph Nechleba

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EDUCATION

Cornell University, B.A. Computer Science, GPA: 3.7 *Ithaca, NY May 2019*

Relevant Courses: Object-Oriented Programming • Data-Driven Web Applications • Operating Systems • Machine Learning • Functional Programming • Systems Design • Algorithms • Networks • Linear Algebra • Multivariable Calculus • Discrete Structures

SKILLS

Technical: Python • JavaScript • Angular 13+ • React • TypeScript • Node.js • Express • D3.js • Java • HTML • CSS/SCSS • SQL • MongoDB • PyTorch • Bash • C • Git • Docker • Scrum • Agile
Language: English (Native), French (High B2)

PORTFOLIO

Selected projects demonstrating full-stack web development, modern frameworks, and secure application design:

Pokémon Team Builder: *(Angular 19, Node.js, Mongoose)*: Built full-stack CRUD app with JWT authentication, protected routes, and HTTP interceptors. Designed SPA components for Pokédex search and detail, Teams view, evolution chains, and real-time team analysis with sortable stats and advanced filtering.

Fractal: *(JavaScript, CanvasSketch, WebWorkers):* Developed Mandelbrot Set explorer supporting interactive exploration at arbitrary zoom levels; enabled smooth client-side canvas rendering with parallel webworkers.

Trattoria: *(Angular 19, HTML, SCSS):* Freelance mobile-first website for Italian restaurant Trattoria Pelliccia, generating thousands of views and contributing to measurable increase in customer traffic (as tracked by Google Analytics).

PROFESSIONAL EXPERIENCE

InterSystems – Senior Software Developer: *Boston, MA | July 2019 - July 2022*
- **Angular Component Library**: Designed and deployed a reusable Angular/Typescript library of components adopted across 5+ teams, improving UI consistency and reducing new feature delivery time by 20%
- **Legacy Modernization**: Recoded AngularJS Clinical Visualizations app to pure Angular 15, cutting build size by 50% and future-proofing against AngularJS deprecation
- **Clinical Viewer:** Developed interactive D3.js clinical chart for patient data and an iframe client container for cross-server applications

Sabbatical*:* *July 2022 - Jan 2025*
- Circumnavigated the globe across 19 countries; worked as an English teacher and in hospitality, building cross-cultural communication, language skills, and problem solving.

Vimbly – Full Stack Developer Intern: *New York, NY | Summer 2018*
- Built SQL data schemas, Node.js middleware, and React components for Catch Fashion e-commerce platform, streamlining product discovery.