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)

EXPERIENCE

InterSystems – Senior Software Developer: *Boston, MA | July 2019 - July 2022*
- **Angular Component Library**: Designed and deployed a reusable Angular/TypeScript UI library 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 over 50% and future-proofing AngularJS deprecation
- **Data Visualization:** Built interactive D3.js clinical viewer for patient data and an iframe-based cross-server client container

Portfolio: www.josephnechleba.com   *Erie, PA Jan 2025-Present*
MEAN Stack: mobile-first, i18n translation, breadcrumbs, dark/light mode
- **Pokemon Team Builder:** *(Angular, Node.js, MongoDB)*: Built full-featured app with Pokedex detail views, evolution chains, sortable team stats and advanced search/filtering, enabling users to create type-balanced teams with real-time analysis.
- **User Sign Up/Login:** *(Node.js, Express, Mongoose, JWT):* Implemented secure signup/login with session management and token-based authentication.
- **Fractal:** *(JavaScript, CanvasSketch, WebWorkers):* Developed high-performance Mandelbrot Set explorer with zoom and screenshot features, achieving smooth rendering through parallel computation.

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

Teaching Assistant – Object Oriented Programming in Java *Ithaca, NY | Sep 2016 - May 2018*
- Led office hours and mentoring sessions, supporting 100+ students in mastering Java fundamentals and object-oriented design.
- Developed **HyperText Search** (*Javascript, Jquery*) tool to help students master key OOP principles (inheritance, encapsulation).