

# Joseph Nechleba

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## EDUCATION

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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

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*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

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**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 and future-proofing AngularJS deprecation
- **Clinical Viewer:** Developed interactive D3.js clinical chart for patient data and an iframe client container for cross-server applications

**Portfolio:** [www.josephnechleba.com](http://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, 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.

**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).