

# Matthew DiLoreto

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**Northeastern University** – Boston, MA

*September 2016 – May 2020*

**Khoury College of Computer and Information Science**

*Bachelor of Science in Computer Science Summa Cum Laude*

*Honors: GPA 3.9/4.0, Dean's List, Dean's Scholarship*

*Clubs: Northeastern Virtual Reality Club (e-board officer), Wireless Club (project leader)*

**Courses:**     **(Graduate):** Large Scale Parallel Data Processing, Algorithms, Software Development  
                  **(Undergraduate):** Web Development, Artificial Intelligence, Programming Languages,  
  Database Design, Object-Oriented Design, Theory of Computation, Computer Graphics,  
  Networks and Distributed Systems, Robotics  
                  **(Teaching Assistant):** Theory of Computation

## TECHNICAL KNOWLEDGE

<i>Languages:</i>	JavaScript, HTML, CSS, Python, Scala, Clojure(script), Java, bash, SQL, elisp
<i>Libraries/Frameworks:</i>	React, Redux, Webpack, Spring(boot), Hadoop, Apache Spark
<i>Other:</i>	Scrum/Agile, Git, SVN, Unix, AWS, Apache Tomcat, Maven, MongoDB
<i>Specialties:</i>	Functional programming, React hooks, Frontend application architecture

## WORK EXPERIENCE

**Pazien** – Burlington, MA (remote only)

*August 2020 – Present*

*Software Engineer I*

- Introduced **React hooks**-style development to a team of 4 frontend engineers, championing functional components and effectful hooks (including the **react-query** library) as complexity-reducing patterns
- Migrated all routing in a medium-sized (~150k SLOC) SPA to **React Router**, deprecating **Marionette.js** routes, synergizing with hooks-style development by providing reactive hooks for all URL-based state
- Diligently monitored application errors in production; diagnosed, implemented, tested, and deployed hotfixes for critical frontend architecture changes
- Developed and maintained a reactive frontend for email analytics used by an in-house marketing team
- Removed more lines of code than added during tenure while increasing overall product feature count

**Harvard Catalyst** – Boston, MA

*July 2019 – January 2020*

*Full Stack Software Engineering Co-op*

- Extended and maintained a **Scala** backend for SHRINE, a message-oriented distributed medical data query system to help researchers identify potential clinical trial participants
- Prototyped and refined responsive UI/UX components such as a medical concept tree supporting over 2 million nodes using **React** and **Redux** (via **Redux-Saga**)
- Integrated system-wide custom logging configurations with Log4j and Logback; simplified complex application startup interaction with **Apache Tomcat** by developing task scheduling abstraction
- Took ownership of complex **Git** workflow and merges between two development teams

**PowerAdvocate** – Boston, MA

*July 2018 – January 2019*

*Software Developer Co-op*

- Designed 12 unique data visualization interfaces for a supply chain spend management platform using **React** and **Spring**
- Adhered to **Scrum** and used pair programming to work in a high-performing, self-organizing team to achieve continuous delivery
- Developed integration tests using **Selenium Web Driver** and **Puppeteer**

## INTERESTS

emacs    cooking    hiking    electronic music synthesis    chess    Muay Thai    yoga