

## EDUCATION

**B.S. Computer Science** | Southern Illinois University

**Jan. 2014 - May 2018**

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## WORK EXPERIENCE

### Senior Software Engineer | Capital One

**Dec. 2022 - Present**

- Migrated critical application from **EC2** to **AWS Batch** and **Fargate**, reducing cost and increasing throughput
- Developed and deployed modular, database-driven implementation of customer offers using **Java** and **Spring Boot**, allowing flexible offer terms and cutting down time for updates

### Senior Software Engineer | Maxwell

**July 2021 - Nov. 2022**

- Led initiative adding [screen sharing functionality](#) to the primary application using **React** and **Ruby on Rails**
- Created, launched, and contributed to the [Maxwell engineering blog](#)
- Implemented web socket interface for asynchronous UI updates using **React** and **Ruby on Rails**
- Acted as dev lead for initiative adding [Snapdocs document e-closing integration](#) to the application using **React**, **Webhooks**, and **Ruby on Rails**

### JavaScript Developer | Bitovi

**Feb. 2020 - July 2021**

- Developed and deployed [PPP loan application](#) as an integral part of project scoping, application architecture, and full-stack development using **Node**, **Koa**, and **React** with **Typescript**
- Implemented cross-project **micro frontend** solution in **React** to transition a legacy app to a new architecture
- Developed spreadsheet application using **RxJS** and **React**, supporting reference cells and formulas
- Managed a "squad" of four developers, focused on a single client application

### Front End Developer | TopstepTrader

**June 2018 - Feb. 2020**

- Architected **micro frontend** solution to migrate from an **Angular 2** monolith into a leaner, **React** solution
- Led front end engineering team across tech stacks including **Angular 2**, **React**, **Python Django** templates, **Hubspot HubL**, custom **WordPress** themes, and native **HTML/CSS/JavaScript**
- Designed, developed, and implemented a reusable component library, using **Webpack** to compile modular **ES6+ JavaScript** and **SCSS** into static, cross-browser-ready **JavaScript** and **CSS**
- Improved first paint time by 300% through a migration from **WordPress** to a faster **Node** and **Gulp** solution
- Led front end developer hiring by creating technical tests and interview processes to verify candidates' skills

### Web Developer Intern | MacUpdate

**June 2016 - Sept. 2017**

- Reduced average page size by 15% by designing and implementing a build process using **Grunt** and **Node**
- Introduced responsive design using **Bootstrap**, **jQuery/JavaScript**, **CSS**, and **HTML**

### Student Developer | Southern Illinois University

**Jan. 2014 - May 2018**

- Authored web pages, forms, and apps for university departments using **HTML**, **CSS**, **JavaScript**, and **PHP**
  - Organized and led classes detailing basic **HTML**, content creation, and best **UI/UX** practices for >200 users
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## PERSONAL PROJECTS

### HUB [hubert.wiki](#)

**2021**

**React, Node, Mongo, and Webhooks** [\[source code\]](#)

Personal wiki with markdown and SMS support.

### WAIto [waito.smessina.com](#)

**2019**

**Node, React Hooks, and PostgreSQL** [\[source code\]](#)

Analysis and visualizations on Last.fm music data.

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### Languages

JavaScript, Typescript, HTML, CSS, SCSS, Python, PHP, Ruby, MySQL, Bash

### Libraries

React, Angular, Node, RxJS, Redux, Django, Rails, Remix WordPress, SASS / SCSS

### Tools

Git, Webpack, Gulp, Grunt, Linux, Vim, Hubspot, Google Analytics & Search Console