

JONATHAN A. SADDLER

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Objective

Software developer/researcher who enjoys engaged, team-driven decision making mixed with active and motion-driven work experiences. Experienced developing and reviewing code in C++, Python, and Java, and at finding and implementing ideas fast by utilizing best-fit frameworks and helper tools, even when switching between languages/frameworks is in order. Actively engaging in and seeking experiences developing full stack apps and frontend websites with some experience deploying serverless datastores via AWS.

Skills

- Programming Languages: C++, C#, Java, Python, TypeScript
- Web Frameworks: Spring Boot, .NET Core, ExpressJS. Frontend: JQuery, ReactJS
- Datastore Technologies: PostgreSQL, MySQL, MongoDB, Amazon DynamoDB

Education

M.S., Computer Science 08/2013 – 08/2016

University of Nebraska Lincoln - Lincoln, NE

- Built two end-to-end testing automation tools for testing Java and .NET apps
- Examined multi-project .NET codebase to reveal defects that could signal hardware failure

Ph.D., Computer Science 08/2016 – 05/2020

University of Nebraska Lincoln - Lincoln, NE

- Published on insights gained studying student eyegaze on software comprehension exams
- Extended existing Java/Python tools for scraping posts on online Q&A website forums for content

Work History

Production Load Deck Operator and Fascia Assembly Operator 04/2022 to Present

Magna DexSys – Lansing, MI

- Assisted 1st-shift paint and assembly lines in loading and packing fascias

Career Break for Gaining Web Development Experience – Flint, MI 05/2021 to 04/2022

- Completed ~8 LinkedIn Learning courses building datastore-backed web applications
- Earned VMware Spring Professional certification December 2021
- Winter/Spring '22: Over 100 commits/month to personal dev projects on GitHub

Teaching Assistant Professor of Computer Science 08/2020 to 05/2021

East Carolina University – Greenville, NC

- Taught two semesters of intro. development courses in Java/Python/C++ for 1st/2nd yr. students
- Selected and ran senior software project course with projects in C++, C#, Java and Kotlin

Software Developer Intern 05/2018 to 08/2018

Workday – Boulder, CO

- Collaborated with supervisor to extend implemented CSP solver cloud services written in Java

NSF REU Summer Research Intern – Jackson State University – Jackson, MI 05/2012 to 08/2012

NSF REU Summer Research Intern – UConn VOTER Lab – Mansfield, CT 05/2011 to 08/2011

- Constructed and implement an energy-saving wireless sensor node network algorithm
- Extended tools capable of reading/translating e-voting results from bytes to readable data

Projects History

Project 1: "Classes App" (Full Stack React App) (06 – 07/2022) Tech Stack: Spring Boot, React, Mongo/DynamoDB

Description: A dynamically updated listing of previously taught courses, syllabi, & descriptions (Site launch in progress)

Code Hosted: <https://github.com/jazad136/spring-classes-app> and <https://github.com/jazad136/react-classes-app>

Launch in progress at: <https://reactjsaddler1.netlify.app/>

Project 2: "Portfolio" (June 2022 - July 2022) Tech Stack: React and Semantic UI

Site Launched at <https://reactjsaddler1.netlify.app/>