

Connor Bach

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Education

University of Notre Dame

PURSuing BACHELOR OF SCIENCE IN COMPUTER SCIENCE

- GPA: 3.49/4.0

Notre Dame, IN

August 2016 - May 2020

Technical Skills

Languages: Javascript, Python, Java, C, C++

Frameworks: React.js, Java Spring Boot, Spring Data REST

Tools: Docker, Jenkins, Cucumber, Selenium

Work Experience

Technology Development Program Intern

UNITEDHEALTH GROUP - OPTUM

- Developed applications to automate manager, customer support, and engineer workflows
- Acted as Scrum Master for my team of interns, managed agile workflows using CA Agile Rally and led daily stand up meetings
- Utilized full-stack web development technologies, including React.js, Java Spring Boot, and MySQL Database
- Setup Jenkins pipelines to implement continuous integration and continuous deployment (CI/CT/CD)
- Created automated tests with Cucumber, Gherkin, and Selenium

Eden Prairie, MN

May 2018 - August 2018

Web Administrator

NOTRE DAME CLUB OF KALAMAZOO

- Manage website design, event scheduling, member registration, communications and member outreach
- Maintain and update membership database
- Design and implement custom templates for website events
- Resolve technical issues for members
- Collaborate with Notre Dame technical support on member requests

Portage, MI

March 2017 - Present

Projects

Diabetes Risk Tracker - Optum Hackathon

OPTUM GITHUB REPOSITORY

- Full-stack web app that holds patient health information and runs patient data through a machine learning model to project risk in real time
- Created machine learning model in TensorFlow, uses public diabetes risk datasets incorporating multiple risk factors
- Frontend created in React.js, support for graphing risk per factor using Chart.js
- Wrote custom API to serve the TensorFlow model using Python and Flask

Notre Dame Dining Hall Guide

GITHUB.COM/CONNORBACH/ND_DH_GUIDE

- Web application that notifies users when their favorite foods are in the dining hall
- Obtains information from the dining hall's website and processes it to find the user's preferred foods for that day
- Utilized Python, Selenium, BeautifulSoup4, and Flask for a backend REST API and webscraper
- Frontend built with React.js and Materialize
- Frontend deployed on Firebase, Backend service deployed on Heroku

Leadership

Board Member - Computer Science for Good, Notre Dame

TEAM LEAD & COMMUNITY OUTREACH COORDINATOR

- Lead community outreach for service focused computer science club
- Led team of 5 other students to redesign a website for Prairie Winds Nature Farm, a local non-profit in South Bend Indiana
- Scope potential projects and facilitate communication between community partners and student developer groups

South Bend, Indiana

September 2017 - PRESENT