

# Connor Bach

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## Education

### University of Notre Dame

BACHELOR OF SCIENCE IN COMPUTER SCIENCE, GRADUATING MAY 2020

- GPA: 3.5/4.0

Notre Dame, IN

August 2016 - May 2020

### Trinity College Dublin

SEMESTER ABROAD

- First Honors

Dublin, Ireland

January 2019 - May 2019

## Technical Skills

**Languages:** Javascript, C#, Python, Java, C

**Frameworks:** React.js, ASP.NET, Java Spring Boot, Spring Data REST

**Tools:** Git, Docker, Jenkins, Cucumber, Selenium, Moq

## Work Experience

### Microsoft

SOFTWARE ENGINEERING INTERN

- Developed modeling software to support the Cloud Supply Chain and Provisioning organization
- Created self service data on-boarding features that saved development teams 2 weeks per customer data entry
- Released features for Microsoft's Finance, Demand Forecasting, Capacity Planning, Capacity Management, and Long Range Planning teams
- Built data modeling systems using the star schema database model
- Developed full stack web applications in C#, React and Angular

Redmond, WA

June 2019 - August 2019

### UnitedHealth Group - Optum

TECHNOLOGY DEVELOPMENT PROGRAM INTERN

- 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
- Set up 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

### Notre Dame Club of Kalamazoo

WEB ADMINISTRATOR

- Managed website design, event scheduling, member registration, communications and member outreach
- Maintained and updated membership database
- Designed and implemented custom templates for website events

Portage, MI

March 2017 - Present

## Leadership

### President - Computer Science for Good, Notre Dame

TEAM LEAD & COMMUNITY OUTREACH

- Directed club of over 100 students that seeks to empower non-profits with technology
- Led community outreach efforts to build relationships with volunteer organizations around the world
- Led team of 5 other students to redesign a website for Prairie Winds Nature Farm, a local non-profit in South Bend, Indiana
- Managed project teams and facilitated communication between community partners and student developer groups

South Bend, IN

September 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
- Written in React.js and Python

### 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
- Utilized Python, Selenium, BeautifulSoup4, and Flask, React.js, Firebase and Heroku