Connor **Bach**

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Education

University of Notre Dame *Notre Dame, IN*

BACHELOR OF SCIENCE IN COMPUTER SCIENCE, GRADUATING MAY 2020 *August 2016 - May 2020*

- GPA: 3.5/4.0

Trinity College Dublin *Dublin, Ireland*

SEMESTER ABROAD *January 2019 - May 2019*

- First Honors
- Studied Computer Science and Irish History and Literature

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 *Redmond, WA*

SOFTWARE ENGINEERING INTERN *June 2019 - August 2019*

- 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

UnitedHealth Group - Optum *Eden Prairie, MN*

TECHNOLOGY DEVELOPMENT PROGRAM INTERN *May 2018 - August 2018*

- 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

Notre Dame Club of Kalamazoo *Portage, MI*

WEB ADMINISTRATOR *March 2017 - Present*

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

Leadership

President - Computer Science for Good, Notre Dame *South Bend, IN*

TEAM LEAD & COMMUNITY OUTREACH *September 2017 - PRESENT*

- 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

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

- 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