

# Trevor Knutson

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## Experience

### **North Dakota State University, Fargo, ND - Web Application Developer**

*May 2019 - May 2020, August 2020 - Present*

- Built a microservice in **Java** to store documents on a remote drive
- Migrate 200 production applications from **Subversion** to **Bitbucket**
- Migrate **PHP** applications from **Oracle** to **MySQL** databases

### **Bushel, Fargo, ND - Software Engineer Intern**

*May 2020 - August 2020*

- Built a full-stack application in **Laravel** and **React** to get familiar with the companies tech stack
- Implemented seeders that mock realistic data to assist quality assurance testers
- Worked closely with designers and the frontend team to implement a backend in **Kotlin** that served data according to requirements

## Education

### **North Dakota State University, Fargo, ND - Bachelor's of Science in Computer Science**

*January 2018 - December 2020 (anticipated)*

#### **Computer Science Coursework**

- |                                      |                                    |
|--------------------------------------|------------------------------------|
| • Data Structures and Algorithms     | • Operating System Concepts        |
| • Modern Software Development        | • Principles of Cybersecurity      |
| • Software Projects Capstone         | • Social Implications of Computers |
| • Principles of Software Engineering | • Database Systems                 |
| • Software Projects Capstone         | • Cyber-Physical System Autonomy   |
| • Networking/Parallel Computation    | • Comparative Programming Language |

## Skills

#### **Languages (Proficient)**

- |              |          |
|--------------|----------|
| • Java       | • Python |
| • Kotlin     | • C++    |
| • Javascript | • HTML   |
| • Typescript | • CSS    |
| • PHP        | • SQL    |

#### **Frameworks and Technologies**

- |           |                |
|-----------|----------------|
| • React   | • git          |
| • Laravel | • Node.js      |
| • Spring  | • npm          |
| • Angular | • Docker       |
| • Maven   | • Unix / Linux |

## Projects

**Software Projects Capstone: Audit Error Tracking System:** (Python, Tkinter, MySQL) Collaborated with product owners and stakeholders to elicit requirements for a system to provide training insights to management. The system allows users to upload documents, visualize data, and refine search parameters to view specific data.

**Data Structures and Algorithms: Inventory Management System:** (Java) Implemented an inventory management desktop application to be used by grocery store staff. The system allowed users to sort and search inventory by name or item code.

**Cyber-Physical System Autonomy: Robot Course Navigation:** (Python) Programmed a robot to navigate a simulated course. The robot navigated completely autonomously using the A\* pathfinding algorithm, sensors, and dead reckoning path following. Due to COVID-19 the course and the robot were fully simulated due to lack of hardware resources.