Trevor Knutson

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Experience

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

May 2019 - May 2020, August 2020 - Present

- Implemented a **Java** web service to backup DocuSign documents to a remote drive
- Migrated over 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 Pokedex web application in **Laravel** and **React** as an onboarding task
- Implemented seeders that mock realistic data to assist quality assurance testers
- Implemented API endpoints in **Kotlin** that adhere to design specifications

Education

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

January 2018 - December 2020 (anticipated)

Computer Science Coursework - GPA: 3.778/4.0

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

Skills

Languages

- Java (proficient)
- Kotlin (familiar)
- Javascript (proficient)
- Typescript (proficient)
- PHP (proficient)
- C# (familiar)
- Python (proficient)
- C++ (familiar)
- HTML (proficient)
- CSS (proficient)
- SQL (proficient)

Frameworks and Technologies

- React
- Laravel
- Spring MVC
- Angular
- Maven
- git
- Node.js
- npm
- Docker
- 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.