

# MORGAN MCGUIRE

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## EDUCATION

### The University of Scranton

Scranton, PA

- **Master of Science: Software Engineering**

*Graduation: May 2024 / GPA: 3.86/4.00*

**Relevant Completed Coursework:** Engineering of Software Systems, Requirements Analysis and Software Specification, Software Project Management, Software Security, Principles and Applications of Software Design, Big Data, AI/ ML Special Topic

- **Bachelor of Science: Computer Science**

*Graduation May 2023 / GPA: 3.77/4.00*

**Relevant Completed Coursework:** Data Structures and Algorithms, Operating Systems, Database Systems, Mobile Applications Development

## SKILLS

- **Languages:** Java, Python, C, C#, Dart, JavaScript, HTML, CSS
- **Development Areas:** Full-Stack Web, Mobile, RESTful API
- **Libraries and Frameworks:** ASP.NET Core, Spring MVC, Bootstrap, Flutter SDK, React
- **Databases:** PostgreSQL, Microsoft SQL Server
- **Version Control:** Git (GitHub, GitLab)
- **Cloud Platform:** Microsoft Azure

## PROJECTS

### Expansion and Revision of VaryTrade Platform (Master's Thesis Project)

- Incorporated payment options through the PayPal API, and enabled payouts using the Hyperwallet API
- Implemented Google Sign-In using OAuth2.0 protocol for web and mobile applications
- Developed RESTful API using Spring MVC
- Generated JWTs using HS256 algorithm to secure RESTful API
- Developed mobile application with Flutter SDK according to the MVVM design pattern

### VaryTrade Web Application (Capstone Project)

- Developed application using Spring MVC
- Employed CSS, Bootstrap, and Thymeleaf to develop UI
- Used PostgreSQL database for data storage
- Utilized Spring Security for authentication and authorization
- Incorporated spam and bot protection using Google's reCAPTCHA v3 for form submissions

## WORK EXPERIENCE

### Sample Database Programmer I at PG Forsta

WFM

August 2024 – Current

- Leverage SQL and T-SQL expertise and an in-house ETL tool to clean, process, and manage data for both small- and large-scale projects
- Ensure the timely delivery of projects, consistently adhering to established quality standards and best practices
- Translate non-technical requirements into technical solutions, ensuring alignment with project goals
- Collaborate with project managers to clarify client needs and expectations, optimizing project outcomes
- Participate in daily sprint meetings to discuss team progress and set future goals

### Product Development Intern at SkillSurvey

Malvern, PA

June 2022 – October 2022

- Developed and performed regression tests for existing software applications
- During regression testing, helped identify critical race condition issue which caused duplicate database records
- Collaborated with a team of other interns and senior developers both on the frontend and backend of a web application, which utilized C#, ASP.NET Core MVC, Entity Framework Core, and existing company RESTful APIs
- Engaged in code reviews with a senior developer to refine coding skills and uphold best practices
- Participated in various activities related to each phase of the software development lifecycle
- Contributed to daily sprint meetings which involved discussing individual and team progress, as well as setting future goals