# Harry Tran

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## Education

**Pennsylvania State University**                                                                 **Graduated: May 2022**
Bachelor of Science in Software Engineering and Minor in Computer Science                                   Erie, PA

## Relevant Courses

- SDLC
- OOP concepts
- Database Management
- Software Testing
- Software Architectures
- Software Risk Management
- Software Design Patterns
- Full Stack Web Development

## Experience

**Process and Data Automation**                                                               **June 2022 – August 2023**
Full Stack Developer I                                                                                           Erie, PA

- Spearheaded a team of 5 in designing, testing, and mitigating desktop apps to responsive UI web apps.
- Designed responsive web apps using ASP.NET MVC 7, JavaScript, Bootstrap 5, HTML, and CSS.
- Implemented ASP.NET Core to build REST API.
- Built real-time microservices using C#, JavaScript, SignalR, and Microsoft Graph API to increase communication across departments and customer services.
- Unit tested and integrated an Electronic Quality Control into client systems, enhancing client's overall QA/QC process.
- Analyzed and debugged customers' applications resulting in a 30% decrease in user complaints and a 22% performance increase.
- Enhanced SQL queries leading to an 80% performance increase for exporting production reports.

## Projects

**Task Tracking App** | MongoDB, Express.js, Angular, Node.js                      **September 2023 – Octorber 2023**
Personal Project

- Developed a web app for task tracking using MEAN stack and deployed on Heroku.
- Contructed REST API in the backend with JavaScript and Mongoose for CRUD operations on the database.
- Implemented security features using Bcrypt.js for password hashing and JWT for authorization token generation.
- Designed responsive frontend views using Angular 16 and Bootstrap 5.
- Enhanced data security with API Guards on the backend and Route Guard on the frontend to control user access.
- Integrated Google Cloud and Meta Cloud APIs to allow users to sign in with their social accounts.

**Blog App: Dong A Blog** | SQL Server, ASP.NET MVC                            **September 2023 – November 2023**
Personal Project

- Built a web app for creating blogs using SQL Server, Bootstrap 5, and ASP.NET MVC 7.
- Designed partial views and implemented Adapter design pattern to increase code resuability.
- Created database context objects from Entity Framework Core to perform CRUD operations on SQL Server database.
- Implemented Authentication and Authorization to control user access.
- Integrated WYSIWYG to allow users to edit content, Cloudinary to store images, and OpenAI to assist users to create blogs.
- Implemented JavaScript, OpenAI API, and SignalR to create real-time chat service and leveraged MDN to design chat interface.

**Capstone Project Hollow Cathode Visualization** | React, Selenium                     **August 2021 – May 2022**
Arizona State University and NASA

- Built a web app for NASA to visualize hollow cathode mechanisms using JavaScript, React, and Bootstrap.
- Gathered prioritized user requirements, engineered them into system requirements.
- Employed Agile Scrum methodology for project management, allowing adaptation to changing requirements.
- Implemented Selenium and jQuery for web interaction and compatibility testing.
- Automated testing with a JavaScript to execute testes every Monday at 9AM, resulting in 30% reduction in testing time.
- Documented code, implementations, and system requirements for system management and future maintenance.

## Technical Skills

**Languages:** C#, JavaScript, TypeScript, Python, Java, HTML, CSS, jQuery, SQL, MongoDB.
**Developer Tools:** VS Code, Visual Studio 2022, Postman, Microsoft Office, Microsoft Teams, SharePoint
**Technologies:** React, Angular, .NET, GitHub/Git, Selenium, Cypress, Bootstrap, TailwindCSS, Heroku, Azure
**Certifications:** ASP.NET MVC 7 | C# Web Dev Completion Certification by Udemy (UC-1d68222d-e9ff-421d-8d97-a207bbff100d)