Vitaliy Trach

Software Engineer

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Experience

Sensitech Inc. - Software Engineer Intern   *Redmond, WA*
May 2019 - August 2019
- Worked on Sensitechs internal IoT configuration software which was built in C# using the WPF framework
- Implemented configuration support for a new IoT device they were introducing
- Built a tool using the .NET WPF framework to test and log SOAP API calls

Projects

Metronome (JavaScript)
- A mobile application that allows a musician to stay on tempo
- Built using the React Native framework

Postscript Interpreter (Python)
- A python program that interprets Postscript-like code and executes it
- Parsed the input Postscript text and converted to specific tokens to compile the code

Iteration Zero (Java)
- An isometric style game that allows the user to travel around a world and interact with entities
- Implemented an Entity-Component-System architecture to make adding features very simple
- Used design patterns (Factory, Builder, Singleton) to minimize coupling between modules
- Built in Java with the LibGDX Java Game Development framework

Deep Sea Hardware Monitor (C++)
- A Windows/Mac/Linux application used in monitoring various IoT devices on a submarine
- Designed and implemented a repository architecture pattern
- Received and parsed UDP packets the IoT devices are reporting via ethernet
- Built in C++ using the Qt application development framework

Business Review Application (C#)
- A Yelp-like application that allows users to search businesses based on filters and view the business reviews
- Designed a SQL database schema for storing and pulling data about the users and businesses
- Incorporated Bing Maps API to show the locations of the businesses
- Built using the .NET WPF application development framework and PostgreSQL

Education

University of Washington   *2021 - 2021*
Fullstack Web Development Coding Bootcamp

Washington State University   *2017 - 2019*
B.S. in Software Engineering

Skills

Languages: Java, C#, JavaScript, HTML/CSS, C/C++, Python, SQL, Haskell
Tools: Git, WPF, Qt, LibGDX, PostgreSQL, Rest APIs, React.js, React Native, Node.js, OpenMP, MPI
Soft Skills: Time Management, Detail-Oriented, Problem Solving, Teamwork
Foreign Languages: Fluent in Ukrainian & Russian