Ivan Nesevski

Computer Scientist • Software Developer

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QUALIFICATIONS

Languages: Java, C#, Python, JavaScript, C, C++, HTML, CSS

Databases: SQL, PostgreSQL, MongoDB, MySQL

Software/Tools: Windows, Linux, Visual Studio, Eclipse, Android Studio, GIT, SVN, Mercurial, Bash

Skills: Web Development (Node.js, React.js, Express.js, Bootstrap, JQuery), File Transfer Protocol (TCP/IP), Source Control, Debugging, Agile Methodologies

EXPERIENCE

Software Developer
May 2017 – August 2018

Spring Air Systems
Oakville, ON

- Helped maintain, test, and improve the front-end and back-end of an ASP.NET web application for specification and quoting in response to user feedback.
- Developed robust algorithms to process 100's of configuration options when drawing product blueprints from user inputs.
- Analyzed stack traces in error reports and used Visual Studio to debug and fix issues with the blueprint drawing modules.
- Updated a SQL database when there were changes in products or prices and prepared scripts to automate repeatable tasks.
- Automated the drawing of product blueprints by refactoring code to leverage the C# AutoCAD library, allowing the removal of over 500 template drawing files from the server and saving countless hours when updating product specifications.
- Enhanced the air duct modelling web tool using the Three.js JavaScript library to integrate 3D controls using rotation matrices and revamped the user interface to be more user friendly with HTML and CSS. Saved the sales team dozens of hours when creating duct designs for clients.
- Assisted in training new co-op student.

PROJECTS

Stock Options Screener (In Progress)

- Created a RESTful web application from scratch that allows a user to search for any stock ticker and see data about all available options (bid/ask price, volume, open interest, Greeks, etc.) using the Questrade API to retrieve data.
- Data is shown using Datatables with many custom display options.
- Technologies used: ES6 JavaScript, HTML, CSS, Bootstrap, JQuery, React.js, Node.js, Express.js.

Hoard Memory Allocator

- Created a parallel memory allocator for Linux using C and ideas from the Hoard paper by Berger et al.
- Implemented individual processor heaps with a global heap to allow for high multi-threaded speeds, performing 400% faster than a sequential allocator.

Airline Booking Mobile App

- Developed an android app for booking and managing flight itineraries with a team of 3 using Java and the Android SDK in Android Studio.
- Served as team leader for the project: assigned roles for team members, managed the development of the app by setting deadlines and coordinating meetings, tested the final product to make sure it met all requirements.

EDUCATION

Honours Bachelor of Science in Computer Science
September 2014 – August 2019

University of Toronto
Toronto, ON

- Graduated with Distinction for achieving a GPA greater than 3.2.

Relevant Coursework: Data Structures & Analysis, Algorithm Design & Analysis, Software Tools & Systems Programming, Operating System Design, Machine Learning, Computer Networks