Mohsin Ismail

Personal Info

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Coursework

Architecture of Real-Time Systems, Real-Time Networking, Optimized C++, Fundamentals of Data Science, Database Technologies, Data Structures I & II, Systems I & II, Discrete Structures & Math, Python Programming, Applied 3D Geometry

Skills

C# / C++ - Optimization, Data caching, SIMD intrinsics, Streaming & profiling

Web Development - HTML5, CSS3, JavaScript, jQuery, Bootstrap

Database Technologies - SQL, PL/SQL, Postgres, Oracle

Other Languages - Java, Python, R, Swift, MATLAB & Simulink

Tools & Software - Visual Studio, Eclipse, pgAdmin, Git & Github, Perforce, SPSS

Highly motivated Software Engineering graduate student with experience in system architecture design and software optimization. Seeking an internship or entry-level role designing and testing software solutions in a dynamic, fast-paced environment.

Education

Jan 2017 - present
M.S. Software Engineering - DePaul University
Expected Graduation: June 2019
GPA: 4.0

Aug 2012 - May 2016
B.S. Bioengineering - University of Illinois at Urbana-Champaign
GPA: 3.3

Projects

Jan 2018 - Mar 2018
Space Invaders Game
Academic Project
- Created a playable Space Invaders replica, consisting of 100+ classes written in accordance to several design pattern specifications.
- Extended the existing Azul software package provided by DePaul in order to integrate specific game rules and mechanisms with the Azul package's updating and rendering functionality.
- Written in C# using Visual Studio.

Oct 2017
Poison Pill Tweets
DemonHacks Hackathon
- A proof of concept tool that uses natural language processing to quantify the magnitude and level of negativity in tweets, and tracks those controversial tweets back to the source.
- Written in HTML, CSS, JavaScript, Node.js using D3 JavaScript visualization package and Google Cloud Natural Language API.

Jul 2017 - Aug 2017
Personal Website
- A modern, mobile-first portfolio website designed from scratch to showcase my experience and provide a central location for visitors to find my contact information.
- Written in HTML, Sass, and JavaScript using Brackets text editor.

Experience

Mar 2017 - present
Student Employee
DePaul University Student Services
- Organized and delivered exam materials for over 20 classes in the College of Law.
- Performed administrative tasks and duties for various departments across campus when required.
- Provided necessary office assistance such as mass mailings, filings, photocopying, running errands, and other general office work.

Aug 2015 - May 2016
Senior Design
Bretl Research Group
- Improved the functionality and sensory feedback of a prosthetic arm through iterative software design in MATLAB & Simulink.
- Programmed a LabVIEW controller to acquire pressure sensor readings and convey corresponding information through electrotactile stimulation via electrodes.
- Designed casting molds in AutoCAD for fingertips made from a rubber polymer.
- Embedded barometric pressure sensors in fingertips that could quantitatively measure force during interactions.
- Won "Best Senior Design Presentation – Judges' Choice" and "Best Senior Design Vendor Display" awards.