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**OBJECTIVE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

I strive to use my diverse technical and communication skills to resolve development difficulties, while increasing my effectiveness as an employee to serve and assist coworkers in a range of software development challenges. I am a final year graduate student from Loyola University Chicago, who loves designing and has hands on experience with frontend development to hardware dev. I am a quick learner and prefer coding my own designs. I am up for learning any new thing that comes up in my field of view. Hobbies include soccer, hardware development for ARM Core, video games, and movies. Enjoys discussing emerging tech over a cup of coffee.

**EDUCATION\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_­­­\_\_**

**Loyola University Chicago**– Chicago, IL M.S. Computer Science

GPA 4.00 Graduation Expected May 2018

**Loyola University Chicago**– Chicago, IL B.S. Computer Science

GPA: 3.58 Graduated Cum Laude May 2017

**Relevant Course Work:**

|  |  |  |
| --- | --- | --- |
| ● HCI – Human Computer Interaction | ● Data Warehouse & Mining | ● Information Systems |
| ● Intermed Obj-Orient Developing | ● Machine Learning | ● Cryptography |
| ● Algorithms | ● Programming Languages | ● Data Structures |
| ● Web Services | ● Markup Languages | ● Client-Side Dev |

**SKILLS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Known Languages:** Javascript, Java, C#, Python, C, C++, and Scala

**Xamarin Studio:** Well-rounded understanding of Xamarin technologies

**Node.js:** Build and deploy a full-stack project run on Node.js

**.NET:** Ability to manage and update source in a .NET project

**Version Control:** Expert with git version control from commits to resolving merge conflicts

**SQL/MongoDB:** Formulate queries in SQL as well as in NoSQL

**UI/UX:** Build and run unit tests and UI tests

**Refactoring:** Ability to refactor and improve existing source to meet new client-side requirements

**Apache:** Understanding in REST Services and able to build a web service in Java (CXF, Tomcat)

**MS Office:** Proficient in all aspects of Mircosoft Excel, Word, PowerPoint, and Access

**Framework/Libraries:**

|  |  |  |
| --- | --- | --- |
| **JAVA** | **Javascript** | **C#** |
| ● JUnit 4 | ● Full-Stack | ● Common .NET libraries |
| ● MongoDB Driver/BSON | ● Ionic | ● ReactJS .NET |
| ● Apache Commons | ● Moment.js | ● Pusher .NET |
| ● Jackson JSON parser | ● Bootstrap | ● PubNub PCL |
|  | ● jQuery |  |
|  | ● Lodash |  |

**WORK AND VOLUNTEER EXPERIENCE\_\_\_\_\_\_\_\_\_\_\_\_\_\_­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**O’Tech Software, LLC (formerly Techman Software, LLC) –** Chicago, IL

***Founder*** *August 2012-Present*

http://otechsoftware.com/

● Explore new and efficient designs for mobile consumer applications and smart technologies.

● Manage and develop ongoing full-stack projects which integrate cross-platform technologies

**Loyola University Chicago –** Chicago, IL

***Teaching Assistant***  *August 2017-Present*

● Grade homework, projects, and exams.

● Assist students with questions or difficulties regarding class material during office hours.

● Periodically give lectures in “Introduction to Object-Oriented Programming”, “Data Structures.”, “Programming Languages”, “Intro to Computer Systems”, and “Human-Computer Interaction”.

**National Association of Realtors CRT Laboratory** – Chicago, IL

***Software Development Intern*** *June 2017–September 2017*

● Refactored an application for realtors to track smart devices in a house currently on the market.

● Designed and developed an end-user Preact application for the Rosetta Home, an open source environmental sensor kit for commercial and residential real estate.

**Argonne National Laboratory –** Argonne, IL

***Researcher/Developer*** *August 2015-August 2016*

***Science Undergraduate Laboratory Internship (SULI)*** *May 2015-August 2015*

● Worked on the Portable, Extensible Toolkit for Scientific Computation (PETSc), a scientific library for running high-level computing experiments in physics, chemistry, and engineering.

● Improved upon the Scientific Application Web **s**erver (SAWs) which allows PETSc to be interfaced through the web browser by taking the existing C library with the integrated C Web Server (mongoose.c) and modifying it to enable Websocket communication, allowing a Javascript web app to interact with PETSc experiments in real-time.

**Loyola University Chicago –** Chicago, IL

***Mobile App Developer***  *July 2014-August 2014*

● Developed the Xamarin.Android mobile application “Here For You” for the Student Wellness Center which provides information on how to go about reporting sexual assault or domestic violence to school or outside authorities.

● Features of the application include signs that a friend may be in an abusive situation or have been assaulted, the procedures done in a rape kit, and nearby hospitals for counseling services.

**FIRST Robotics –** Chicago, IL

***Volunteer*** *August 2015-December 2015*

● Assisted students in building Lego robots for the Lego Mindstorm Challenge.

● Taught students ranging from 1-8 grades block coding from the Lego Mindstorm kit.

**ACTIVITIES AND AWARDS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Top 10 Placement in World Virtual GovHack –** Sponsored by the United Arab Emerates and AngelHack

***Submission: Project SafeHarbor*** *Ongoing*

https://projectsafeharbor.com/

● Part of a three-person team that designed and developed an open-source platform which enables communities to provide basic resources, safety, and security to asylum seekers around the world.

● Includes technologies like biometrics and blockchain to help locate missing family members in various refugee camps and immediately link incoming refugees to health, educational, and job opportunities.

**Unchain the Frame Hackathon 1st Place Winner –** Sponsored by IBM and AngelHack

***Submission: SpotExchange***  *November 2017*

https://thespot.exchange/

● Part of a three-person team that designed and developed a blockchain-based, artificial intelligence-powered parking reservation marketplace.

● Connects buyers and sellers of physical parking spaces using an autonomous and decentralized system which determines optimal pricing using a self-learning ecosystem in real-time.

**Fall 2017 Project Presentation Winner –** Sponsored by Loyola University Chicago CS Department

***Submission: MiHome*** *December 2017*

● Part of a two-person team that designed and developed an open-source environmental sensor which provides studens and researchers a cheap and reliable data collection platform.

● Included both the hardware development using Particle IoT and Arduino’s as well as the software development of a Cordova application to interact with the hardware for sensor and user data via a web API.