CHELSEA IP

SOFTWARE ENGINEER

EDUCATION

UNIVERSITY OF WASHINGTON
Sept. 2018 to Current
B.S. in Computer Science and Software Engineering 2020
GPA: 3.37/4.0

COURSEWORK

Data Structures & Algorithms
Software Engineering
Software Project Management
Cloud Computing
Operating Systems
Analysis & Design
Interactive Game Design
Database System
Statistical Inference
Information Management and Analysis
Web Programming Applications
Hardware And Computer Organization

CONTACT

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VOLUNTEERING

Led a 45 people team consisting of aspiring web developers, project managers, graphic designers, social media marketing and business leaders to host University of Washington's first Blockchain Hackathon + Expo weekend in Washington.

LEADERSHIP

Tricampus Vice President @ UW Blockchain Society
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Organized instructional workshops, coding competitions, discussion panels, and mentorship programs to assist more than 700+ members interested in blockchain technology.
https://uwblockchain.org

TECHNICAL SKILLS

FRONTEND/CLIENT: HTML5, CSS3, jQuery, AJAX, Javascript
BACKEND: Django, APIs, Git, PostgreSQL, AWS, REST, SOAP
LANGUAGES: Python, Java, C++, C#, R, Javascript
OPERATING SYSTEM: Windows, Linux, macOS
FRAMEWORKS: Flask, Django, Vue.js, ASP.NET
SOFTWARE + TOOLS: Google Firebase, Visual Studio, Android Studio, Xamarin, RStudio, MySQL, VSCode

PROFESSIONAL EXPERIENCE

MEDINTELLIBASE® INTELLIGENCE SOLUTIONS · | Software Engineer Intern
Redmond, WA · May 2019 to Dec. 2019

- Worked with App team to use Azure Notification Hubs and Firebase server to send customers push notifications across iOS/Android platforms.
- Redesigned web templates on the automation website (UI) and increased search tool features using HTML, CSS and Javascript.
- Implemented and deployed an abstract automation system to allow content managers increase throughput and efficiency by 95%.
- Performed code migration to refine the software from Python 2.7 to Python 3.5, in order to align with the timing of new prospective clients.
- Collaborated with Technical Lead and project team members daily on project progress and status.

GREEN GUIDE INC. · | iOS/Android Software Developer
Seattle, WA · Apr. 2019 to Dec. 2019

- Integrated Android third party APIs such as Baidu Maps to show customer reviews for businesses in any given location.
- Performed bug fixes and improve application performance after project completion by receiving feedback from users.
- Worked closely with web application development team to ensure proper integration between the mobile application and web application.

SOFTWARE DEVELOPMENT PROJECTS

JAVA WEB CRAWLER (CSS 436 - CLOUD COMPUTING) Oct. 2019

- Implemented a web crawler from scratch with HTTP programming to "GET" and crawl parts of the HTML based web.
- Formulated regex to find the first <a href> reference to other absolute URLs as well as handling all HTTP requests with return codes in the 300s or 400s.

BACKUP APPLICATION CSS 436 - CLOUD COMPUTING) Oct. 2019

- Utilized Boto3 library in Python to recursively traverse through the directories and upload files to AWS S3 from Windows command prompt environment.
- Retrieved datetime from S3 bucket object for last modified time and performed comparison tests for s3 object datetime and local file date time.

SUGAR SHIELD (UWB HACKS) Apr. 2019

- Performed a team design program to develop a machine learning software to help medical sectors detect patients diagnosed with Type 1 or Type 2 diabetes.
- Performed an HTTP request in JavaScript after collecting attributes from user input. The website is deployed on the AWS EC2 Ubuntu server.

RESEARCH

UWB BIOCOMPUTING BRAINGRID Nov. 2019

- Applied Machine Learning in Python on GPU enabled Brain Grid Neural Simulator to stimulate 10,000 neurons and observe patterns of spikes.
- Utilized Linear, Lasso, Ridge regression and artificial neural networks to predict burst origin to avoid imbalanced data sets. Decision Tree (DT) and Support Vector Machine (SVM) were used to see if pre-burst precursor is predictive of burst initiation.
- Analyzed similar patterns of data and consequently applying Convolutional Neural Networks for pattern recognition.