Michael Dow

Champaign, IL

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Education

University of Illinois at Urbana-Champaign   *Urbana-Champaign, IL*
B.S. in Computer Science   *Expected May 2021*
                                                                         GPA: 3.62/4.00

Experience

Visa   *Austin, TX*
Software Engineer Intern   *May 2019 - Aug 2019*
- Migrated internal web application for chargeback management to satisfy security requirements
- Developed responsive front-end UI in JavaScript using React and Redux
- Developed back-end REST API in Java using Vert.x and SQL database

Capital One   *Champaign, IL*
Software Engineer Intern   *May 2018 – Aug 2018*
- Implemented automated data recovery for Elasticsearch service on AWS servers using Python
- Improved data allocation speed of new machine instance on Elasticsearch cluster by 34%
- Created Ansible playbook for automating service provisioning on Auto Scaling Groups using Amazon Web Services

PAC Lab Research   *Loyola University Chicago*
Student Researcher   *Aug 2015 – May 2016*
- Developed Python application to analyze accelerometer data of arbitrary repetitive movements using libraries such as NumPy, SciPy, and Matplotlib
- Achieved 80.75% accuracy in counting number of repetitions of any general, repetitive movement

Activities

Association for Computing Machinery - WebMonkeys   *Champaign, IL*
Member   Aug 2017 - Present
- Learned about new web technologies and improved web development skills through talks and small projects

FIRST Robotics   *Aurora, IL*
Programming Lead   *Aug 2014 – May 2017*
- Coordinated with other leadership members to decide on strategy and to ensure all work was completed
- Implemented vision processing system using an on-board computer and multiple cameras using Python
- Developed autonomous programs with imaging and various sensors using Java

Projects

CU Transit: Bus and Navigation (Android App)
Developer   *May 2017 - Present*
- Developed app to track Champaign-Urbana bus system in real-time using REST API
- Installed and used by more than 3000 active users

Spotify Visualizer
Developer   *April 2018 – May 2018*
- Created C++ application to visualize music based on BPM and pitch using Spotify's Web API and OpenFrameworks

Technical Skills

Programming Languages: *Java, Python, C++,* Javascript, HTML/CSS, C#, SQL, Ansible
Technologies: Git, Android Studio, Node.js, React, Redux