

Nathalie Tate

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Education

Oakland University

Bachelor of Science in Computer Science (GPA 3.32)

- Graduate-Level courses in Data Mining, Computational Intelligence, and Software Verification

Rochester MI

2018

Professional Experience

Legislative Service Bureau

Software Developer

Lansing MI

November 2018 – present

Herculeze Technologies Inc

Lead Software Developer

Rochester MI

October 2017 – October 2018

- Developed and launched an online marketplace application to match customers with delivery providers, creating a new revenue stream and allowing the company to receive funding (herculeze.com)
- Developed a native Android application to enhance mobile users' experience
- Developed a RESTful API and a MySQL Database Schema to support the Android and web clients
- Automated and documented API testing procedures
- Participated in weekly meetings with client to capture project requirements and provide progress updates
- Conducted code review for and provided guidance and training to Summer Interns
- Configured version control and release deployment using GitHub Webhooks
- Implemented secure customer payments using PayPal Encrypted Web Payments (EWP)

Cause Activators, LLC

Web Developer Intern

Rochester MI

January 2018 – April 2018

- Developed and launched an online "cause marketplace" to match non-profit organizations with local businesses looking to make charitable contributions
- Configured CI/CD using VisualStudio.com and Microsoft Azure Cloud Services
- Utilized MVC and RESTful API design patterns
- Participated in weekly meetings as part of an Agile development

Projects

Sentiment Analysis Projects

Oakland University

Data Mining and Computational Intelligence Projects

2017-2018

- Performed sentiment analysis by using weighted keywords and a tf-idf similarity measure on data mined from Twitter
- Used weighted keywords and known associations to compare Twitter Users to determine patterns
- Used a tf-idf similarity measure to compare Tweets in order to find terms of service violations

AceChat

Sophomore Design Project

Oakland University

2016

- Developed cross-platform chat client with custom JSON protocol to allow multiple users to communicate over the Internet
- Used WebSockets to communicate asynchronously with central server

Skills

- **Programming Languages:** Perl, SQL, JavaScript, C/C++, Java, C#, Python, Ruby, R
- **Web Technologies:** HTML5, .NET Core, Perl CGI, Microsoft Azure Cloud Services, Apache HTTP Server, PayPal EWP
- **Design Patterns:** Model-View-Controller (MVC), Representational State Transfer (RESTful API)
- **Software Applications:** Office 365, Vim, Wireshark, VirtualBox, Visual Studio, Android Studio, Git, Postman
- **Operating systems:** Windows (XP-10), Linux(Arch, Mint, Ubuntu), Android
- **System Administration:** Disk Partitioning, File System Management, Database Management