

KYLE O'NEILL

SOFTWARE ENGINEER, NETWORK ANALYST, AND WEB DEVELOPER

CONTACT INFO

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🌐 github.com/kyleoneill



EDUCATION

2014
|
2018

Bachelor's of Science

Major: Digital Forensics
University at Albany, State University of New York
GPA: 3.99

📍 Albany, NY



WORK EXPERIENCE

June
2019
|
February
2020

capSpire

Junior Developer

📍 Dallas, TX

- Developed ReactJS web apps working on both the frontend and backend.
- Assisted in migration of MySQL database to Hadoop on AWS EMR. Translated SQL scripts to PySpark.
- Updated internal Python tools.

Jan 2019
|
Mar
2019

Rational Enterprise

Junior Developer

📍 Albany, NY

- Aided development of AngularJS application, added features and fixed bugs.
- Lead refactoring effort to consolidate and simplify modal dialog boxes.
- Leveraged automated testing system I built for the project to proactively find and fix bugs.
- Updated and maintained automated testing system.

Sept
2018
|
Dec
2018

General Electric

Emerging Technology Intern

📍 Schenectady, NY

- Performed independent research of AWS technologies to see how they could be used to improve corporate processes.
- Worked on final stage of an Alexa for Business pilot. Refined the process of locating factory tools from paper-based to electronic, improving speed and accuracy. Added minor features and fixed bugs. Project is in production and being used on factory floor.
- Created Proof-of-Concept for Amazon DeepLens to understand the process of setting up the device and creating a machine learning model using SageMaker. Came up with potential use cases based on analysis of company needs, e.g., how to handle authentication on Alexa for Business devices, scanning for safety equipment on workers, and checking inventory. Created a Confluence page detailing device set-up and troubleshooting, along with an evaluation of device security.
- Performed product-comparison for Amazon's Lex on AWS and Microsoft's Luis on Azure. Developed metrics for evaluation based on review of product documentation, tutorials, and third-party articles and reviews. This comparison was documented on a Confluence page.

June
2018
|
August
2018

Rational Enterprise

QA Intern

📍 Albany, NY

- Wrote end-to-end tests for Rational Review, a web application designed to help lawyers search through thousands of digital documents to prepare for litigation.
- Updated testing framework from CasperJS to Node.js in order to access modern JavaScript features. Tests were re-written using Puppeteer and Mocha.
- Assisted the company in obtaining compliance with the Agile software development cycle.
- Wrote a Node.js script to scrape federal and state websites to download legal accident report PDFs for corporate records.

May
2017
|
May
2018

University at Albany - ITS

IT Support

📍 Albany, NY

- Worked with around 50 stakeholders to survey and document the status of over 5,000 data/video/voice jacks on campus.
- Wrote C# applications to parse information out of datasets detailing damaged data/video/voice jacks on campus.
- Performed a security review of SUNY centers documenting how personally identifiable information (PII) was being stored.
- Updated and managed a Mediawiki service for Microsoft applications, including writing a python script to locate outdated articles.
- Acted as switchboard operator using Pinnacle database, Google, and other documentation to answer questions about billing, class scheduling, and finding faculty on campus.

SKILLS

JavaScript, Node.js
Rust
Python
C# + .NET
Bash
Java
Git
SQL
C++
HTML/CSS

Strong collaborator
Team Player
Self-motivated
Analytical

PROJECTS

Personal

- LeagueBot (Node.js, SQLite): Chat bot which uses both Discord and Riot APIs to provide information to users about their League of Legends account.
- Norgannon (React, Express, SQLite): CRUD web-app that allows users to store and sort YouTube videos by user defined categories.
- Terraview (Rust): A Rust program that edits binary WLD files for the video game Terraria, includes a basic WLD parser. Includes documentation for WLD files found on the internet and expanded/updated by me.

TECHNICAL SKILLS

General IT

- Cloud Services: AWS (S3, EC2, RDS, CloudWatch), Azure
- Project Management: Confluence, Agile Software Development, MediaWiki
- Database Design and Development: SQL, MySQL Workbench, ER Diagrams, Normalization
- Networking: OSI Model, TCP/IP Model, Network Design
- Virtual Machines: VMWare Horizon, Oracle VM VirtualBox
- Operating Systems: Windows XP/7/8/10, Ubuntu, Kali, Android, iOS
- Word Processing: MS Excel, MS Word, MS Powerpoint, Google Sheets

Digital Forensics and Information Security

- Evidence Acquisition and Incident Response: AccessData FTK, Autopsy, Encase Forensic Suite, AccessData FTK, ProDiscover
- Operating Systems: Kali, Caine, Paladin, Knoppix
- Reporting, Policy, Procedure, Plan Development: Examiner Notes, Chain of Custody, Incident Response, Computer Exam
- Information Security: Wireshark, John the ripper, OSINT, Network Recon, Social Engineering

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HTML/CSS*