NIKITA PETRENKO

(267) 832-8686
thenikitapetrenko@gmail.com

EMPLOYMENT

Senior Software Engineer　　　　　　**Dayforce**　　　　　　**February 2024 – Present**

- Creating new solutions to continuously monitor and enhance the health and activity of internal applications, ensuring optimal performance and early detection of issues
- Designing and implementing robust automations using GitHub Actions to execute Security and Quality Assurance tasks, including Static Application Security Testing (SAST), Software Composition Analysis (SCA), Dynamic Application Security Testing (DAST), and Code Quality scans on internal codebases
- Developing a web application that provides detailed information on vulnerability scans, reports of discovered vulnerabilities, and other critical data to enhance visibility and response to security issues

Software Engineer　　　　　　**Cornerstone OnDemand**　　　　　　**March 2021 – February 2024**

- Built new tools from the ground up to support company's infrastructure transition to AWS including, integrating new features using CloudFormations and Lambdas; resolving issues and enhancing application stacks; improving existing infrastructure efficiency to be more cost-effective and more scalable
- Architected automations and dashboards for cross-functional teams in Jenkins to build and upload reports to Splunk for localization issues, analysis of internal code dependencies and code coverage
- Automated day-to-day Source Code Management (SCM) / Build activities through creation of Jenkins pipelines to support an end-to-end automated process including starting, notifying, monitoring and validating application deployments, all previously done manually
- Created bots to monitor application deployments in real-time and provide notifications of successes and failures; designing Splunk dashboards containing status of deployments across Cornerstone's global AWS environments

EDUCATION

State College, PA　　　　　　**Pennsylvania State University**　　　　　　**August 2018 – May 2021**

- B.S. in Computer Science
- Coursework: OOP with Web-Based Applications, Calculus and Vector Analysis, Matrices, Discrete Mathematics, Numerical Analysis, Elementary Probability, Computer Vision, Algorithms and Data Structures, Operating Systems, Programming Language Concepts, Database Management Systems, Theory of Computation, Microprocessors and Embedded Systems, Web Design

PROJECT EXPERIENCE

- **Wordy App** (2018). iOS application that allows users to take a picture of an object and learn its name in a foreign language of their choice. Swift, Vision, CoreML, Google Cloud Translate
- **Doc.AI** (2019). iOS application that allows doctors to capture a CT scan of a brain with a tumor to determine whether it is malignant or benign. Swift, Vision, CoreML, CreateML, Firebase
- **I Know Trash** (2019). Smart trash can that uses computer vision to determine if something is trash or recycling and allocates it into an appropriate trash bag. Swift, Vision, CoreML, CreateML, Firebase, RPi
- **VaxsPass** (2021). iOS application that enables users to get their Covid ID stored on the blockchain, discover locations that administer vaccine shots, track vaccine distribution, and ask questions about COVID-19. Swift, Flask, Google Cloud Vision API, Alchemy API, Solidity, GPT-3, Heroku, Firebase

AWARDS

- Best Use of Google Cloud Platform, DragonHacks: Awarded for I Know Trash project, out of 36 projects
- Best Mobile App, SF Hacks: Awarded for iOS Doc.AI project, out of 61 projects
- Third Place - Best Overall Hack, SF Hacks: 3rd place prize for iOS Wordy App project, out of 33 projects
- Honorable Mention - Best Hack using Alchemy API, TreeHacks: Awarded for iOS VaxsPass app, out of 224 projects

LANGUAGES AND TECHNOLOGIES

- Python, C, Java, SQL, Powershell, HTML/CSS, Groovy
- VS Code, Microsoft SQL Server, Git, Jenkins, AWS, Splunk