Dalton Kaua

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Experience

VSP Global
Full Stack Developer
Jan 2019 – Mar 2020

- Awarded first place in the annual hackathon for creating an Angular site in 48 hours to address the company's issues with Open Enrollment.
- In coordination with various Agile teams, I modernized an outdated company site by rewriting it in Angular and adding additional functionality.
- Automated the creation of Jira stories from DevSec vulnerability scans. This was a critical step for creating a secure development environment.
- Prototyped a front-end Angular component to display customer statistics in an easy-to-understand format filled with interactable charts and graphs.
- Greatly expanded JUnit coverage of multiple back-end Java APIs.

NASA Ames
Tools Developer
Jun 2017 – Jun 2018

- Created data manipulation tools to pair UAV telemetry with frames from dissected high-resolution videos.
- Generated images tagged with positional metadata and stitched together a prototype three-dimensional landscape mosaic with Blender.
- Published an educational poster describing how my tools fit into the FluidCam mosaic generation process.
- After the initial internship, I was contracted through the Bay Area Environmental Research Institute to continue my work.

Projects

Scipio
Artificial Intelligence
Language: Python

- With Scipio, I became the 13th person to solve the Praetorian Machine Learning Challenge.
- The challenge: create an AI to correctly and consecutively classify 500 compiler binary slices from 12 random architectures.
- Scipio is capable of correctly classifying 2000+ slices consecutively.
- Engineered a unique 'confidence' system that allows Scipio to evaluate its classification strength and submit or discard classifications accordingly.

RuneCrypt
Secure Encryption
Language: Python

- RuneCrypt is an encryption tool which layers a user defined number of encryption schemes to secure important files.
- This tool also has the ability to generate an identical encrypted file filled with fake data as a decoy.
- RuneCrypt will soon feature GPU acceleration, steganography, and size-reduction encoding.

Education

University of the Pacific, Stockton, CA, May 2020
Bachelors of Science in Computer Science | Concentration in Networking and Security

Skills

Python, Java, C, C#, C++, CSS, JavaScript, Typescript, HTML
Angular, GitHub, Metasploit, Nessus, OpenVAS, Multithreading, Artificial Intelligence, Encryption, Automation, Jira, Agile, Linux: Arch, Kali, Ubuntu, Parrot, Visual Studio, Nodejs, Confluence, Bitbucket, Eclipse, VMWare