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Kenny Yee

Employment

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|--|---|--------------------------|
| Malware Researcher | BAE Systems Applied Intelligence | Aug '15 – Present |
| <ul style="list-style-type: none">• Created algorithm to detect URL similarity by implementing dynamic programming and Hirschberg's algorithm in Python on product feature SmartClick to significantly improve customer latency.• Developed a PDF parser to parse PDF binaries to extract objects for machine learning algorithm.• Worked on a high level debugger in Python and C for Mac. Released as an open source project on Github.• Automated malware lab by creating algorithm to transfer and categorize malware using the Jira API in Python.• Learned extensively about low-level vulnerabilities in C and x86 assembly and modern security techniques. | | |
| Research Assistant | University at Buffalo Department of Computer Science | Jan '15 – May '15 |
| <ul style="list-style-type: none">• Developed and refactored Static Analysis algorithm with mentors to detect malicious repackaged Android apps from Google Play Store. Published at 30th IEEE/ACM International Conference on ASE (New Ideas Track).• Utilized Soot Framework in Java to analyze APKs in intermediate representations, control flow graphs, and call graphs.• Devised a Python script using matplotlib to visualize results and algorithmic techniques in weekly meeting. | | |
| Technician | iRepair Buffalo | Apr '14 – May '15 |
| <ul style="list-style-type: none">• Managed three technicians, consulted with customers, and performed diagnosis and repairs on hardware and software. | | |

Personal Projects

- **Vital Sign Tracker (2014 – 2015):** Android wear system to track vital signs and locations of on-duty firefighters and transmit distress signals. | Java, Android, HTML, CSS, Photoshop, Illustrator
- **Locafy (2015):** (HackPrinceton) Location-based music app to display appropriate playlists from Spotify. | Java, XML
- **ARM embedded system game (2014):** low-level Spy Hunter game created on ARM board. | ARM Assembly
- **Secure Cloud Storage (2013):** GUI application that hashed and split a file to several cloud accounts and formed aggregate file when downloaded. | Java
- **Data Structures (2013)** Implemented data structures such as Maps, Vectors, AVL trees, Stacks, and Queues. | C++

Education

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| Buffalo, NY | SUNY University at Buffalo | 2011 – 2015 |
| <ul style="list-style-type: none">• B.S.E in Computer Engineering• Courses: Data Structures, Algorithm Analysis & Design, Machine Learning, Software Engineering, Comp. Architecture Microprocessors & Microcomputers, Real-Time & Embedded OS, VLSI, Calculus I II and III, Linear Algebra | | |

Languages and Technologies

- Proficient:** Python, C, Java, x86 Assembly **Familiar:** C++, OCaml, JavaScript, HTML, ARM Assembly
- Version Control:** Git (Github, Bitbucket, Gitlab), CVS
- Operating Systems:** OS X, Debian-based Linux, Windows
- Software:** VMware, Eclipse, Android Studio, Visual Studio, IDA Pro, Windbg, Cadence, Canopy

Awards

- Awarded the top 15 coders at Bloomberg CodeCon competition out of 200 competitors **Mar '15**