Andrew Nicolalde

Lover of all things computing! Seeking fulfilling work in embedded
systems security, network security and software security.

AndrewN.io

Education

2016-2021 (expected)	**MSci Computer Science (Information Security) w/ Year in Industry**: Royal Holloway, University of London
	Top marks in Computer & Network Security module & associated InfoSec modules
2016-2017	**Scholarship Recipient - American Airlines Education Foundation**

Work Experience

Internship | American Airlines

Corporate Communications | Summer 2016

Supported technical setup of company's quarterly State of the Airline Report corporate event. Collaborated in the creation of event's internal communications announcements.

Summer Researcher | Royal Holloway, University of London

Information Security Group | Summer 2018

Undertook fully funded research project with the Smart Card and Internet of Things Security Center, explored visualization techniques which better allow enterprise users to monitor the real-time flow of security & compliance sensitive information throughout a complete information system.

Technical Experience

Information Security	Created, selected & deployed security policies for personal & organizational use.
	• Experienced in threat modeling, software & hardware security with specific interest in embedded systems security.
	• Experience configuring & deploying key management & distribution infrastructure.
	• Secured multiple Linux servers for production deployment.
	• PGP Key Available, see Keybase below.
Programming Languages	**Java**
	• 6 years programming experience
	• Java graphics libraries (JavaFX), ORMs (Hibernate)

Python

- 3 years programming experience
- Jupyter Notebooks
- Scapy networking library & raw socket programming

Developer　　**Teamwork**

- Received top marks in second year Team Project course, using Scrum & Agile development tools, processes & techniques.
- Test-driven developer
- GitHub issue, project tracking

Git & VCS

- Well practiced in use of Git in real multi-developer & multi-team projects
- SVN proficiency

Docs

- Excellent English writing skills
- JavaDoc, Python Docs
- Pandoc, LaTeX

Hackathons

Cisco University Challenge 2017

October 2017

Developed a solution designed to ease congestion on trains using the Cisco Meraki smart networking API as part of Royal Holloway Team 2.

AstonHack 2017

November 2017

Created a **command line interface for Monzo Bank.**

Royal Hackaway 2018

January 2018

Made a **heatmap visualizer of average inpatient healthcare costs in the United States.**

Additional Interests

- Human Languages:
  — *English (native speaker)*
  — *Spanish (native speaker)*
- Smartcard security, eMRTD protocol security, regulatory compliance
- Passionate about and eager to contribute to Free & Open Source Software