Ferdinand Mudjialim

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EDUCATION

Bachelor of Science—Computer Science/Mathematics   Fall 2018—Present

University of Tulsa, ABET-accredited program   Tulsa, OK

- Minor in Music (Piano), GPA: 4.0, President's Honor Roll

Relevant Coursework:
- Fundamental Algorithms, Data Structures, Computer Organization and Assemblers, Comparative Programming Languages, Computing Ethics
- Discrete Mathematics, Intro to Advanced Mathematics

WORK EXPERIENCE

IT Technician, Intern   Summer 2018

Union Public Schools   Tulsa, OK

- Imaged and configured over 1250 laptops for high school students
- Discovered open-source tool to bypass BIOS security, speeding up workstation setup workflow
- Wrote Powershell/CMD scripts to automate and speed up configuration
- Responding to support requests (Windows troubleshooting)

TECHNICAL EXPERIENCE

Projects

Online Bible Parser
- Scrapes an online Indonesian Bible website to parse user-requested verses into an output text file
- Used to increase efficiency in making custom verse presentations for local church
- Technologies: Python (Beautiful Soup, Requests, Regular Expressions)

Raspberry Pi Home Network Server
- Built an all-in-one file, print, web, and music server for home network on Raspberry Pi
- Technologies: SMB, CUPS, SSH, Apache, Raspbian (Debian)

Research

(Ongoing) RAGE Attack Graph Engine + Robot Cars Testbed
- Currently working with two teams to develop a bridging research project
- Using an attack graph generator to produce possible attack vectors for a network with robot cars running vulnerable software
- End goal of presenting a proof-of-concept in which an attacker could use the attack vectors generated to gain unauthorized control of robot cars
- Technologies: C++, PostgreSQL, GraphViz, Debian
- Useful skills: Graph Theory, Discrete Mathematics, Networks

TECHNICAL SKILLS

Languages & Software:

— Most experience: Python, Java, Git, Linux (Debian, Arch)

— Prior experience: HTML, CSS