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FDUCATION

THE COLLEGE OF WOOSTER

B.A., COMPUTER SCIENCE & MATHEMATICS

Aug 2014 - Dec 2017 | Wooster, OH Cumulative GPA: 3.97 / 4.0

SKILLS

LANGUAGES

Working knowledge: C/C++ • Golang Basic knowledge: R • Java • Python Haskell • bash • SQL

TECHNOLOGIES

- git JIRA AWS
- Google Cloud Docker
- Kali Linux curl nmap
- Metasploit Burp Suite

COURSEWORK

RELATED COURSES

Machine Intelligence + Project
Algorithm Analysis + Project
Operating Systems
Computer Networking
Software Engineering + Project
Programming Languages
Data Structures & Algorithms + Lab
Probability & Statistics I, II + Project
Advanced Linear Algebra
Real Analysis I
Functions of Complex Variables

(Research/Teaching Asst & Grader) Algorithm Analysis User Interface Design Data Structures & Algorithms Linear Algebra

LINKS

▲ nguyen-khoa.github.io
 github.com/nguyen-khoa
 in linkedin.com/in/khoanguyen18

HONOR SOCIETIES

Phi Beta Kappa Pi Mu Epsilon (Mathematics)

EXPERIENCE

INTUIT, INC. | SECURITY ENGINEER INTERN - RED TEAM

May 2017 - Aug 2017 | San Diego, CA

- Built and maintained an automated offensive security testing platform in Golang based on the Kill Chain model to monitor more than 1,000 AWS accounts.
- Wrote 12 security checks in JIRA for the platform.
- Helped scale the platform to ingest a whole connected kill chain of multiple security checks in addition to individual checks.

WESTERN RESERVE GROUP | AMRE RESEARCH CONSULTANT

May 2016 - July 2016 | Wooster, OH

- Automated the client's data importing process of auto insurance data into Excel with Access SOL and VBA, and included an intuitive user interface.
- Trained 2 teammates inexperienced in SQL and VBA to intermediate skill level.
- Completed the project 2 weeks before the deadline.

GOODYEAR TIRE & RUBBER | AMRE RESEARCH CONSULTANT

May 2015 - July 2015 | Wooster, OH

- Developed Automated X-ray Image Analysis Software (AXIAS), used daily by Goodyear in inspecting 12-feet-tall industrial tires, with OpenCV and Visual C++.
- Utilized hypothesis testing and visualization to help identify a tire's anomalies.
- Reduced the time for inspecting each tire by 85% to only 5-6 min.

PROJECTS

PREDICTING STOCK PRICES

MATH-329 Probability & Statistics II | CSCI-310 Machine Intelligence

- Created an ARIMA time series model combined with a Restricted Boltzmann Machine (RBM) in R to predict stocks based on their historical prices.
- Predictions fell within $\pm 10\%$ of the actual prices of the 18 stocks tested.
- Working on more testing and model configurations for better accuracy.

AUTOMATED THEOREM PROVERS (ATP)

Independent Study | Senior Thesis - Expected Dec 2017

- Doing research on the theory and implementation of current ATPs.
- Customizing an existing ATP written in Haskell for the course Real Analysis I.
- Improving the program to make certain generated proofs more human-like.

LETEX ON ANDROID: TEXMOB

CSCI-230 Software Engineering - Mobile Computing

- Created a fully functional prototype of an Android app to write and compile LATEX
- Designed all of the user interface and client-side logic.

EXTRACURRICULARS

GHC Scholar & Poster Presenter Co-Founder & Vice President Participant Resident Director Trustee Grace Hopper Conference 2016 Computer Science Club - Coll. of Wooster DEF CON 25, HackMIT 2016, OHI/O 2015 Office of Residence Life - Coll. of Wooster Jenny Investment Club - Coll. of Wooster