DANIEL CHOI

EDUCATION

University of Virginia

School of Engineering and Applied Science Masters in Computer Science Cumulative GPA: 3.823

College of Arts and Science B.A. in Computer Science 2019 Cumulative GPA: 3.774 Major GPA: 4.0

Thomas Jefferson HS for Sci and Tech

RELEVANT COURSWORK

Computer Architecture and Design Data Minina

Deep Learning for Visual Recognition

Machine Learning

Advanced Embedded Systems

Software Security

Software Engineering for Robotics

Computer Graphics

Mobile Application Development

Computer Vision

Computer Game Design

Defense Against the Dark Arts

Information Retrieval

Computer Networks

PL for Web Applications

Algorithms

Theory of Computation

Digital Logic Design

Program and Data Representation

Software Development Methods

Discrete Mathematics

SKILLS

Programming

Java HTML/CSS
AWS Javascript
- S3, IAM, Athena Java Servlet
Python JSP

- NumPy, Pytorch LaTeX

- ROS C

C++ Android
Ruby on Rails x86 64

Angular

Spoken Language

Korean English dc9db@virginia.edu www.daniel-choi.com

PROFESSIONAL EXPERIENCE

University of Virginia [Charlottesville, VA | Aug 2016 - May 2020] Teacher Assistant (C\$1112, ECE2330, C\$3330)

Worked as a teacher assistant for ECE2330 (Digital Logic Design), CS1112 (Introduction to Programming) and CS3330 (Computer Architecture) with high understanding of topics: sequential network design, instruction set architecture and hardware implementation of the memory system and virtual memory.

Amazon [Seattle, WA | Jun 2019 - Aug 2019]

SDE Summer Internship (AWS Elastic Map Reduce)

Implemented an automated service to replace a manual workflow in dealing with Trouble Tickets. The tool relieved the task of engineers responsible for the tickets, and is open to future expansion for various issues that may create a ticket.

Amazon [Seattle, WA | May 2018 - Aug 2018]

SDE Summer Internship (AWS Identity and Access Management)

Automated the policy scan process that originally required several days to a week of work by an engineer by developing an automated IAM Policy Scan tool that implements AWS services such as Amazon Athena and S3 into a Ruby on Rails website.

Fasoo [Seoul, Korea | Jun 2016 - Jul 2016]

Summer Intern (Sparrow Team)

Participated in the development of a custom Web Crawler that identifies websites containing vulnerability related source codes. The crawler would take input of an xml file from the CVE (Common Vulnerabilities and Exposures) website, as the database, and categorize the websites by vulnerability type.

PERSONAL PROJECTS

System for Context-Relevant Term Search

[Charlottesville, VA | September 2017 – December 2017]

Researched and Built a system for context-relevant term search for a project in the Information Retrieval Course implementing the Jelinek-Mercer smoothed Language Model with the Lucene Library.

Wilderness at the Student Game Development Club

[Charlottesville, VA | September 2016 - December 2016]

Participated in the Development of the game "Wilderness" in the Student Game Development club, developing the script parser for the game.

LEADERSHIP && ACCOMPLISHMENT

KSEA Central Virginia YG Chapter – President

Organized and lead networking events and social gatherings in the YG Chapter of Korean-American Scientist and Engineers Association in UVA.

ACM at UVA - Member

Participated as a school representative in the regional round for ACM international Collegiate Programming Contest 2016

Student Game Developers at UVA – Member