

# DANIEL CHOI

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## EDUCATION

### University of Virginia

College of Arts and Science

B.A. in Computer Science

Cumulative GPA: 3.767

Major GPA: 4.0

### Thomas Jefferson HS for Sci and Tech

## RELEVANT COURSWORK

Computer Graphics  
Mobile Application Development  
Computer Vision  
Computer Game Design  
Defense Against the Dark Arts  
Information Retrieval  
Computer Networks  
PL for Web Applications  
Algorithms  
Computer Architecture  
Theory of Computation  
Digital Logic Design  
Program and Data Representation  
Software Development Methods  
Discrete Mathematics

## SKILLS

### Programming

Java	HTML
Python	CSS
Numpy	Javascript
Pytorch	Java Servlet
C++	JSP
Ruby on Rails	LaTeX
C	Amazon
x86_64	AWS
Android	SQL

### Spoken Language

Korean  
English

## PROFESSIONAL EXPERIENCE

### 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.

### University of Virginia [Charlottesville, VA | Aug 2016 – Dec 2018]

*Teacher Assistant (CS1112, ECE2330, CS3330)*

Worked as a teacher assistant for the Courses ECE2330 (Digital Logic Design), CS1112 (Introduction to Programming) and CS3330 (Computer Architecture). Helped out students throughout the course answering questions in office hours, lab sections on various topics such as basic programming, Boolean algebra and number systems to sequential network design, instruction set architecture and hardware implementation of the memory system and virtual memory.

### Fasoo [Seoul, Korea | Jun 2016 – Jul 2016]

*Summer Intern (Sparrow Team)*

Participated in the development of a custom Web Crawler to search for websites containing source codes related to Code Vulnerabilities. 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 community events such as networking events and social gatherings in the YG Chapter of Korean-American Scientist and Engineers Association in University of Virginia.

### 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