

Sebastian B. Koo

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Objective: Software Developer or DevOps

Education

B.S. in Computer Science

January 2018 – May 2020

George Mason University (GMU) – Fairfax, VA

GPA 3.56

A.S. in Computer Science

Spring 2016 – December 2017

Northern Virginia Community College (NVCC) – Loudoun, VA

GPA 3.8

Skills

- *Languages:* Python, Java, Haskell, R, C, Lisp, Prolog, Bash, and Assembly
- *Internet:* HTML, CSS, JSON, and XML
- *Operating Systems:* Linux, Unix, macOS, Windows, and Android
- *Databases:* SQL, SQLite, Oracle, and JDBC
- *Tools:* IntelliJ IDEA, Eclipse, Android Studio, GitHub, JUnit, Maven, Gradle, and ZooKeeper
- *Other:* Fluent in English and Korean

Academic Projects

- **Python and Haskell** *January 2020 – Present*
 - Domain Name System client, Image Processing - Seam Carving, Musical Chairs, Monads
 - Prime factors, Co-primes, Tribonacci, Max two, Reversed, Clockwise, Zip-with
- **Java** *January 2016 – Present*
 - *Algorithm:* Text Processor, Virtual Filesystem, Library Management, Drone Simulator
 - *Data Structure:* Dynamic Grid for 2D tables, Postfix Processor with Queue/Hash Table, Cyphertext Decoder with Encoding Trees Stacks, Color Blob Detector with Disjoint Sets
 - *Concurrent & Distributed System:* consistent & fault-tolerant Key-Value Store
- **Android** *September - December 2019*
 - UI, Activities, Intents, Layouts, Threads, Location Services, Networking and JSON
 - Exercise Tracking app in SQLite & ListViews and Quiz app to practice data representation
- **C** *January 2018 – May 2019*
 - *Low-Level application:* Omega I Invariant Cipher, DNA Sequencing, Food Delivery
 - *Systems programming:* Floating-Point Representation and Paged/Virtual Memory

Work Experience

Undergraduate Teaching Assistant

August 2018 – Present

George Mason University – Fairfax, Virginia

- Collaborated with several Graduate TAs, Instructors, and Professors
- Assisted dozens of CS students in classes and laboratories
- Taught Python, Java, CS intro, and legal ethics.

Tutor

January 2016 – December 2017

Northern Virginia Community College (NVCC) – Fairfax, Virginia

- Tutored several hundred students in all the Math classes offered in NVCC
- Provided up to 20 hours weekly in Student Tutoring Center
- Solved many problems with junior students for their classes