

Sebastian B. Koo

Falls Church, VA | 202-210- 9924 | bkoo3@gmu.edu | LinkedIn & GitHub: /sebkoo | Twitter: @koo_seb

Objective: Software Developer / DevOps / Site Reliability Engineer (SRE)

Education

B.S. Computer Science	<i>Jan 2018 – May 2020</i>
George Mason University (GMU) – Fairfax, VA	GPA 3.6

A.S. Computer Science	<i>Jan 2016 – Dec 2017</i>
Northern Virginia Community College (NVCC) – Loudoun, VA	GPA 3.8

Skills

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

Academic Projects

Jan 2018 – Present

- **Python**
 - Domain Name System (DNS) Client, Augdentity, MaxTwo, ZipWith
- **Java**
 - *Algorithms:* Text Processor, Virtual Filesystem, Library Management, Drone Simulator
 - *Data Structures:* Generic Grid for 2D tables, Postfix Processor with Queue & Hash Table, Cyphertext Decoder with Encoding Trees Stacks, Color Blob Detector with Disjoint Sets
 - *Concurrent/Distributed Systems:* Key-Value Store & ZooKeeper, Distance Vector Routing
- **Android**
 - UI, Activities, Intents, Layouts, Threads, Location Services, Networking and JSON
 - Exercise Tracking app in SQLite & ListViews, Quiz app to practice data representation
- **Haskell**
 - Image Processing - Seam Carving, Musical Chairs, Monads: State, List, Maybe, IO
 - PrimeFactors, CoPrimes, Tribonacci, Reversed, Clockwise, TakeWhile
- **C**
 - *Low-Level application:* Omega I Invariant Cipher, DNA Sequencing, Food Delivery
 - *Systems programming:* Floating-Point Representation, Paged & Virtual Memory

Work Experience

Undergraduate Teaching Assistant	<i>Aug 2018 – May 2020</i>
George Mason University – Fairfax, VA	

- Collaborated with several Graduate TAs, Instructors, and Professors
- Assisted dozens of CS students in classes and labs: Python, Java, CS Intro, Legal Ethics

Tutor	<i>Jan 2016 – Dec 2017</i>
Northern Virginia Community College (NVCC) – Fairfax, VA	

- Tutored several hundred students in all the Math classes offered at NVCC
- Solved numerous problems with junior students up to 20 hours weekly