Sam Donghyuk Kim

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EXPERIENCE

Software Engineer Fellow / U.S. Department of Defense
Sept. 2019 – Present | Fort Bragg, N.C.

· Building iOS/Android app to replace Special Ops combat medics' outdated books with customized, up-to-date medical reference materials, using C# and Xamarin.
· Working through X-Force Fellowship at NSIN.

Research Assistant / Raluca Gordân Lab, Duke University
Aug. 2019 – Present | Durham, N.C.

· Analyzing public patient genome data to confirm newly hypothesized cause of cancer, attributed to body's own transcription factor binding, using Python and Bash.

Data Science Fellow / National Institutes of Health
June – Aug. 2019 | Bethesda, Md.

· Led 4-member project to describe workforce funded by the federal agency, using machine-learning techniques in R. Results may help inform Congress and automate future analyses.
· Introduced non-technical team to programming.
· Worked through Coding It Forward's Civic Digital Fellowship.

Research Assistant / Duke Malaria Collaboratory
May 2018 – May 2019 | Durham, N.C.

· Designed a log-risk regression model to uncover malaria transmission patterns from genomic data and find the best strategy for eliminating disease "hotspots" in Kenya.

PROJECTS

Handoff / Best Nonprofit Hack Co-Winner, HackDuke 2019
Nov. 2019 | Durham, N.C.

· Developed and deployed web app to solve a local volunteer group's ridesharing needs, using JavaScript and Mapbox API.

Campaign Finance Analysis / Sanford School of Public Policy
Aug. – Dec. 2018 | Durham, N.C.

· Reported that senior U.S. Representative received $615,000 from corporations under his committee's jurisdiction, using analyses of Federal Election Commission records in Python.
· Correctly predicted that his spending patterns signaled an imminent primary challenge.

EDUCATION

Duke University
Durham, N.C. | Expected May 2021

B. S. in Biology
B. A. in Computer Science
Minor in Computational Biology and Bioinformatics

GPA 3.95/4.00, Dean's List with Distinction

ACTIVITIES

Chair / Duke Association for Computing Machinery
April 2019 – Present

Representing Duke's largest major, and helping recruit underrepresented students.

Senior Health & Science News Reporter / The Chronicle
Sept. 2017 – May 2019

Communicated complex scientific discoveries to public.

U.S. Presidential Scholarship Semifinalist
April 2017

SKILLS

Full Stack
Python, Java, C/C++, C#, JavaScript, HTML/CSS, Bash

Data Analysis
R, SQL, AWK, VBA

Software
Jupyter, Xamarin, Git

Interests
Certified lifeguard, amateur K-pop dancer