Jong Sung (Jason) Kim

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Education

University of Michigan, Ann Arbor, MI   Sep 2017 - May 2021
B.S.E. in Computer Science Engineering, Minor in Biology
GPA 3.948 / 4 with 124 credits completed

Notable Coursework:
Computer Vision, Artificial Intelligence, Web Systems, Machine Learning,
Computer Security, Genetics, Genetics Laboratory, Evolution, Ecology, Microbiology

Experience

University of Michigan   Jul 2020 - Present
Undergraduate Research Assistant
- *Assured Micropatching (AMP)* project by DARPA; course credit-based commitment under the supervision of Dr. Kevin Leach.
- Studied purposely introduced vulnerabilities in an ArduPilot simulation and scripting for reverse engineering tools.
- Maintained the codebase and documentation for the aforementioned vulnerabilities.

Lear Corporation   *Not Applicable*
Automotive Cybersecurity Intern
- Canceled and tentatively postponed to Summer 2021 due to COVID-19.
- Original duration was Jun 2020 - Aug 2020.

University of Michigan Multidisciplinary Design Program   Jan 2020 - Present
Undergraduate Research Assistant Sponsored by Aptiv PLC
- Evaluated the adaptability of open-source intrusion detection software to Aptiv PLC's requirements towards a connected vehicle gateway, as a seven-person team.
- Presented reports, executive summaries, and design reviews under the supervision of faculty mentor Prof. Shai Revzen.
- Responsible for project management, automated testing, and communication with faculty and corporate sponsor mentors.

- Received the *MDP Summer Research Fellowship* for May 2020 - Jul 2020 to continue work on building a Raspberry Pi-based test bench.
- **Note 1**: The aforementioned reports were proscribed from publication due to a non-disclosure agreement between the team members and Aptiv PLC.
- **Note 2:** Winter 2020 peer reviews are available here.

University of Michigan   Sep 2019 - Present
Instructional Aide for EECS 388, Introduction to Computer Security
- Responsible for holding a weekly discussion section and office hours, grading, and communication with students over email and Piazza.
- Seasonal responsibilities were cheat checking and writing reports for cases of academic dishonesty.
- Worked May 2020 - Aug 2020 (off semester) exclusively on implementing and/or testing revisions to course projects, autograders, and other course infrastructure.
- Supervised by Profs. Peter Honeyman and J. Alex Halderman (Sep 2019 - Apr 2020), Daniel Genkin (Sep 2019 - Present), and Z. Morley Mao (May 2020 - Present).
- **Note:** Links to instructor evaluations for Winter 2020 and Fall 2019.

Languages

Fluent in:
C/C++, Java, Python (Flask, PyTorch, scikit-learn, SciPy), LaTeX, Bash, English, and Korean.

Intermediately proficient in:
x86, ARMv8, MATLAB, HTML, CSS (Bootstrap), JavaScript (React, jQuery), SQL, and Spanish.

Honors

I.	MDP Summer Research Fellowship	Apr 2020
II.	EECS Scholar	Mar 2019
III.	James B. Angell Scholar	Mar 2019
IV.	William J. Branstrom Freshman Prize	Mar 2018
V.	University Honors and Dean's List	Fall Term 2017 - Present

Personal Projects

JasonDrive   Dec 2019 - Jan 2020
A rudimentary replica of Google Drive to use as a home file server, built
with Python/Flask for the back end and React for the front.

Rosalind   Jul 2019 - Aug 2019

Competitive platform for bioinformatics programming questions partly maintained by the University of California at San Diego. Ranked in top one percent of approximately 74,000 users.

ZeroSteg   Aug 2019

Web app in JavaScript (link) that encodes and decodes steganographic text with zero-width Unicode characters.

BitmapParser   Jun 2019

Header-only C++ library to read, write, and make basic edits on bitmap images.

EasyLSB   Jun 2019 - Jul 2019

C++ program that encodes and decodes text within bitmap images using least significant bit steganography. Application of *BitmapParser*.

End of Curriculum Vitae
Last updated September 6, 2020