





# Jong Sung (Jason) Kim

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## Education

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**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, Web Systems, Machine Learning, Computer Security,  
Genetics, Genetics Laboratory, Evolution, Ecology, Microbiology

## Experience

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**University of Michigan**

Jul 2020 - Present

**Undergraduate Research Assistant**

- Ironpatch project, part of the Assured Micropatching Program 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.
- Currently investigating machine learning models to classify compiled binaries by their compiler and optimization flags.

**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

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### 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

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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

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### 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 23, 2020