

# Lily Schwarz

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## Education

**The George Washington University, Washington, D.C.**

*August 2017 – May 2021*

- Bachelor of Science in Computer Science, Minor in Economics

**Study Abroad:** Prague, Czech Republic (Spring 2020); Seoul, South Korea (Summer 2018); Taipei, Taiwan (2015-16)

**Relevant Coursework:** Software Engineering, Computer Architecture, Discrete Structures I & II, Linear Algebra, Databases, Systems Programming, Software Design for Handheld Devices, Operating Systems, Algorithms, Foundations of Computing

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## Projects

### **University Processing System**

*May 2019*

- Used PHP, MySQL, HTML, and CSS to design and implement a full-stack registration, advising, and application system modeled after the system my university uses.

### **Food Fate**

*April 2019*

- Used Kotlin and the RecipePuppy API to create a recipe app (equipped with notifications and the ability to change the language to Mandarin) that allows one to input three ingredients to get a list of related recipes. The user is also prompted to order pizza in the app.

### **CTRL-B: Bold & Brilliant**

*February 2019*

- Won Most Impactful Hack at Pearl Hacks (All-female Hackathon at UNC Chapel Hill) for using Javascript, MySQL, HTML, and CSS to create a full-stack platform that connects girls interested in STEM to resources that could help them achieve their goals.

### **DC Metro Navigator**

*January 2019*

- Used Kotlin and the WMATA API to create an Android app that provides metro directions in DC. It displays real-time alerts that a user may encounter enroute. If the location is not metro-accessible, driving directions are given.
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## Experience

### **Leidos**

*Reston, VA*

#### **Software Engineering Co-Op**

*August 2020 – Present*

- Gaining software engineering experience working for the Intelligence sector of Leidos

### **BlackRock**

*San Francisco, CA*

#### **Summer Technology Analyst**

*June 2020 – August 2020*

- Gained software engineering experience through working on Aladdin: BlackRock's operating system that unites all the information, people, and technology needed to manage \$11 trillion in assets and 30,000 investment portfolios in real-time.
- Utilizing Docker, Kubernetes, and Java to build a microservice that formats the processing of Exchange Traded Funds.

### **Mission Data**

*Washington, DC*

#### **Software Engineering Intern**

*June 2019 – August 2019*

- Gained experience as an agile developer through daily standups and releasing projects in increments of two week sprints to improve OpSense: an IoT platform that monitors and regulates food safety.
  - Used Node JS to write an application that sends climate-related data to the Tuya Smart Home system using the Tuya API.
  - Wrote an iPhone app in Swift to allow restaurants and grocery stores to register and receive data from sensors connected to OpSense. Push notifications are enabled to send out alerts, and those alerts are stored in a database that the user can view to observe alert trends.
  - Wrote a Java application that parses JSON files to extract data from sensors and used that data to produce charts using Vega Lite to auto-generate personalized PDF reports and HTML emails that are automatically emailed out to clients.
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## Skills

**Technical:** Java, Swift, Python, HTML, CSS, C, Django, Docker, Kotlin, PHP, SQL, JavaScript, Firebase, OpenCV, Kubernetes

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## Activities

**Women in Computer Science:** Freshman Rep, Technology Director, Treasurer, Co-Chair

*October 2017 – Present*

**Rewriting the Code:** Fellow

*August 2019 – Present*

**Tau Beta Pi:** Member of Engineering Honors Society

*November 2018 – Present*

**Student Peer Advisory Network Mentor:** School of Engineering

*September 2018 – Present*

**Alpha Omega Epsilon STEM Sorority:** Risk Management Chair, Secretary

*September 2017 – Present*