

# Sharon Gao

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## EDUCATION

**University of Pittsburgh**, Dietrich School of Arts and Sciences  
*B.S. in Computer Science*

Pittsburgh, PA

**Expected Graduation:** May 2019

## TECHNICAL SKILLS

*Experienced:* Java, C#, Python, SQL  
*Familiar:* Ruby, C

*Frameworks:* Guice, Spring, JUnit, Mockito, Flask  
*Other:* Git, S3, DynamoDB, Databricks

## WORK EXPERIENCE

**Amazon – Package Builder Services, AWS Developer Tools** (*Java, Ruby*)

Seattle, WA

*Software Development Intern*

May 2018 – August 2018

- Designed and developed a production-ready artifact file browsing service
- Shored up security problems and latency slowdowns of previous browser
- Implemented authorization and permission checking of AWS accounts
- Improved artifact lookup time by over 93%, from 24 seconds to 1.6 seconds

**ANSYS – 3D Simulation Infrastructure** (*C#, Python, SQL*)

Canonsburg, PA

*Software Development Co-op, Rotation 2*

August 2018 – December 2018

- Independently implemented multiple features and user stories for the AIM Infrastructure team
- Developed a reusable Databricks report that queries and graphs product usage data
- Resolved performance defects and optimized product start up through dotTrace profiling

*Software Development Co-op, Rotation 1*

September 2017 – December 2017

- Collaborated to design and develop an automated profiler tool that improved time taken to investigate performance issues by 40%
- Performed defect triage and prevention, with a focus on high-priority issues
- Improved and simplified developer ramp up process with automated scripts

## PROJECTS

**Fire Emblem Recreation** (*Java*)

- Developed an authentic recreation of the Gameboy Advance title *Fire Emblem*
- Implemented customization, allowing players to create and play custom maps

**CHIP-8 Interpreter** (*Python*)

- Developed an interpreter of the CHIP-8 language that executes machine code instructions to emulate Atari-era games and programs

## AWARDS

**Honorable Mention/Prize Winner** – SteelHacks Hackathon 2017

**Honorable Mention/Prize Winner** – ShelInnovates Hackathon 2017

**2<sup>nd</sup> Place** – First Insight Hack Challenge 2017