

Amy Lu

Carnegie Mellon University, Pittsburgh PA
Bachelor of Science in Computer Science, minor in Philosophy
Projected Graduation: Dec 2021, GPA (QPA): 3.25/4.0

EXPERIENCE

University of Pennsylvania CIS, Philadelphia PA— *Research Intern*

May 2019 - Aug 2019

Worked with database professor, Dr. Susan Davidson, to develop a Chrome extension to help teachers organize course materials. Used Google Apps Script (JavaScript) to parse and tag Google Drive documents and also build a searchable, sorted question bank for more convenient course material writing.

JBS Science, Doylestown PA — *Bioinformatics Intern*

May 2016 - May 2018

Led team of high school students to develop software, HccDriverFinder, for early detection of liver cancer (personalized medicine). HccDriverFinder runs DNA sequence alignment algorithms and analyzes Next Generation Sequencing data for potential mutations or integration events that could drive liver cancer.

PROJECTS/PUBLICATIONS

Food@CMU— *2nd place HackCMU 2018*

Developed Flask web app for CMU dining services that helps students find food on campus and donate dining blocks to local charities. Used HTML, CSS to design web pages and JavaScript to integrate Google APIs

TextCrafter— *TartanHacks 2019*

Developed Android app that suggests responses to text messages. Used in XML and Java through Android Studio, utilized Microsoft Azure Text Analytics APIs.

Development of a novel approach to identify cancer drivers for hepatitis B virus associated hepatocellular carcinoma

American Association for Cancer Research 2018 Journal.

Shih-Chun Shen, Amy Lu, John Shieh, et al.

ACTIVITIES

Jane Street INSIGHT software engineering program— *Jan 2019*

Ministry Team leader, Asian Christian Fellowship — *Jan 2018 -*

Women@SCS — *Sep 2018 -*

INSPIRE (CMU Interfaith Spirituality Embassy)— *Jan 2018 -*

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SKILLS (in order of proficiency)

Python, C, SML, Java, JavaScript,
HTML, CSS

RELEVANT COURSEWORK

Introduction to Computer
Systems (15-213)

Parallel and Sequential Data
Structures and Algorithms
(15-210)

Great Ideas in Theoretical
Computer Science (15-251)

Principles of Functional
Programming (15-150)

Principles of Imperative
Computation (15-122)

COMMUNITY SERVICE

Pittsburgh's LIVING ministries
inner-city homeless outreach
October 2019-present

Notetaker for CMU Office of
Disability Resources
September 2018 - May 2019

FOCUS construction work and
community outreach missionary
in La Sequita, Ecuador
May 2019

English teacher and missionary in
Taichung, Taiwan
July 2018, 2019