Cole Perschon

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Education

University of Utah

B.S. in Computer Science
B.S. in Applied Mathematics
May 2021 / Salt Lake City, UT

Relevant Course Work: Adv Algorithms*, Algorithms, Operating Systems, Database Systems*, Data Mining, Natural Language Processing, Models of Computation, Intro to Computer Graphics, Intro to Optimization* (*currently enrolled)

Skills: Java, Python 3, C, C++, LaTeX, Bash, Typescript, R, SQL, Git, Angular, Node.js, Dagger, HTML/CSS, Bootstrap, AWS: S3, RDS, CloudFormation, & Lambda, graph algorithms, serverless computing, data visualization

Experience

University of Utah College of Engineering
Undergraduate Research Assistant · Dec 2019 – Present / Salt Lake City, UT

- Proved amenability of novel connected dominating set algorithm to the Structural Rounding framework.
- Reorganized our project's C++ library to support algorithms for new problems in a published update.

Amazon
Software Development Engineer Intern · May 2020 – Aug 2020 / Seattle, WA

- Working with the Easy Ship team to lower returns due to damage by 25% for ~130K daily active users.
- Developed a service from scratch in Java to mark orders as fragile using ML with seller-facing UI changes.

L3Harris
Software Engineer Intern · May 2018 – Dec 2018 / Salt Lake City, UT

- Working with the User Interface team to build web-based GUIs for the VORTEX airborne transceiver.
- Developed a visualization tool in Typescript to remove jamming frequencies, deployed on Global Hawk.
- Converted team libraries from Bootstrap 3 to Bootstrap 4 while ensuring no breaking changes.

Leadership

HackTheU · Director of Marketing · Feb 2018 – Feb 2020
Led a team of 5 that grew applications for Utah's largest hackathon by 240% from 2017 to 2019.
Designed flyer and video assets in Adobe Creative Suite displayed on Billboards in downtown Salt Lake City.

Associated Students of the University of Utah · Speakers Vice-chairman · Jun 2017 – Apr 2018
Organized speaking events for comedian Nick Swardson, actor Jesse Williams, and survivor Elizabeth Smart.

Projects & Activities

- Awarded Undergraduate Research Opportunities Program (UROP) Scholar for Spring 2020 and Fall 2020.
- 2nd place winner of the 2020 Amazon Puzzlehunt for (MDT) timezone, solving 11/16 puzzles.
- Developed a playlist generator based on dimensionality reduction of song fields (.hdf5) for Data Mining.
- Co-founded an after school coding camp, Coded, and taught Apple's "Hour of Code" to 5th graders.