Derek Cheng

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Work Experience

Software Engineering Co-op, Lutron Electronics
September 2018 – Present
- Lead the design and implementation of a feature written in Java (Android) and Objective-C (iOS) for Lutron's mobile apps that warns the user when their home lighting control system nears maximum device capacity, aiming to significantly reduce related tech support calls
- Conduct user research by polling alpha/beta testers and studying app-collected analytics to create a software design that closely aligns with user requirements
- Fill in as UX designer by creating wireframes and mockups to assist the UX team when their workload is heavy
- Prepare Lutron's mobile apps for a CES 2019 release by conducting testing to identify bugs and implementing bugfixes

Undergraduate Teaching Assistant, Cornell Department of ECE
January 2018 – May 2018
- Served as an undergraduate teaching assistant for ECE 2300 (Digital Logic and Computer Organization), an introductory computer engineering class of around 100 students
- Graded and provided feedback for homework and exams
- Led and supervised 3-hour weekly lab sessions of around 20 students by explaining key concepts, diagnosing bugs, and monitoring student progress

Course Assistant, Cornell Department of Mathematics
August 2017 – December 2017
- Served as a course assistant for MATH 1110 (Calculus I), an introductory calculus class of around 300 students
- Coordinated and ran support sessions to assist students with homework and exam preparation
- Graded weekly homework for 30 students and provided students with feedback regarding areas they should focus on

Leadership Experience

Tour Manager, The Hangovers A Cappella
August 2017 – January 2018
- Managed and allocated a touring budget of $11,000 between transportation, lodging, food, and other expenses for our January 2018 tour of California
- Planned performances and social events at 5 universities across Northern and Southern California
- Searched for and liaised with potential concert venues including Cornell alumni clubs located in California

Education

Cornell University, Ithaca, NY
College of Arts and Sciences
Bachelor of Arts, Computer Science
Minors in Linguistics and Music
Expected May 2020

Cumulative GPA: 3.77
Dean's List: 2016 - 2017

Relevant Courses
- *CS 2110*: Object-Oriented Programming and Data Structures (Summer 2015)
- *CS 2800*: Discrete Structures (Spring 2017)
- *CS 4820*: Introduction to Analysis of Algorithms (Summer 2018)
- *CS 4410*: Operating Systems (Summer 2018)
- *INFO 2300*: Intermediate Design and Programming for the Web (Spring 2018)
- *LING 4424*: Computational Linguistics (Spring 2018)
- *CS 3420*: Embedded Systems (Spring 2018)

Campus Involvement
- Association for Computer Science Undergraduates
- Cornell University Glee Club
- The Hangovers A Cappella

Specialized Skills

Programming Languages:
- Java, C, Objective-C
- HTML, CSS
- PHP, SQL
- Verilog

Foreign Languages:
- Mandarin Chinese (fluent)
- Japanese (JLPT Level N2)
- French (basic)