

JANELL CHEN

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EDUCATION

BOSTON UNIVERSITY

B.A., Computer Science; GPA: 3.92/4.00

Relevant Coursework: Software Engineering, Algorithms Analysis, Data Structures, Computer Systems, Operating Systems, Databases and Data Mining, Data Mechanics and Urbanization, and Probability in Computing

Boston, MA
Expected 2019

NATIONAL UNIVERSITY OF SINGAPORE, *School of Computing*

Relevant Coursework: Information Security, Interaction Design

Singapore
Fall 2018

EXPERIENCE

AMAZON, *Alexa Team*

SDE Intern – Alexa Deletion Service: Removal of Customer Utterance Data Upon Request

- Developed a deletion service that removes a customer's utterances from Amazon's internal data store in order to fulfill General Protection Data Regulations and to protect user's critical information
- Proposed several algorithmic and architectural designs to increase efficiency and reach the Service Level Agreement requirements (1-hour turnaround to user)
- Ensured code quality with thorough code coverage in unit tests, exception handling, and logging
- Implemented service using Amazon Web Services Tools: SQS, SNS, S3, and DynamoDB

Seattle, WA
Summer 2018

OPTUM INSIGHT, *UnitedHealth Group*

Software Engineer Intern – PaceMKR: An Early Warning System and Detector of Claim Anomalies

- Designed and developed PaceMKR, a web application that allows for intuitive querying and analysis for 100M+ records, using Hadoop, Hive, Pig, Spark, Elasticsearch, and Kibana
- Collaborated on a team of 9 interns in an agile environment to architect solutions and ensure product quality
- Reduced data storage costs by \$120,000/month and reduced runtime of application from 18 to 5.5 hours
- Discussed solutions in meetings with business analysts and product owners to satisfy requirements by improving producer-consumer relationship and preventing medical claims payment delays via PaceMKR

Boston, MA
Summer 2017

BOSTON UNIVERSITY, *CS Department*

Course Assistant – CS111, CS112

- Support 30+ students in weekly office hours and course labs with Python and Java
- Explain concepts and provide in-depth solutions, teaching Python and Java syntax and coding techniques

Boston, MA
2017 - Present

UNIVERSITY OF HAWAII AT MANOA, *College of Engineering*

Electrical Engineer Intern – Biosensors for Heart Rate Detection

- Built a drone that detects body heat, heart rate, and motion with an infra-red sensor to help rescue crews find survivors after a natural disaster
- Collaborated with graduate students to program an infra-red sensor to respond using Arduino software

Honolulu, HI
Summer 2015

PROJECTS

- **Crimes in Boston (Flask, Python):** Web application that analyzes Boston crime data, finds optimal police patrol stations, and suggests preventative measures for the city, using Google Maps API, Z3 Solver, and DML Library
- **Phoodable (Django, Python, JavaScript):** Web application that requires user authentication with Facebook and uses Yelp Fusion API to help generate restaurant recommendations
- **GIFerty Mutual (Flask, Python):** Web application that uses Liberty Mutual Shine API to take in a user's destination and returns the relative safety score of that address

COMMUNITY INVOLVEMENT

GIRLS WHO CODE, *Boston University*

- Led weekly sessions at Match Charter High that aim to teach fundamentals of coding to minority students
- Provided guidance on building various coding projects, and encouraged pursuit of STEM in higher education

Boston, MA
2016 - 2017

ADDITIONAL INFORMATION

Technical Skills: Java, Python, SQL, Amazon Web Services (SQS, SNS, S3, DynamoDB), Git/Version Control

Language Proficiency: Fluent in Cantonese and conversational in Mandarin

Interests: Played piano for 10 years, casual oboe player, hiking, table tennis, and reading