SARAH CHOU

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EDUCATION

Northeastern University · Sept. 2015 to May 2020
Khoury College of Computer & Information Sciences
B.S. in Computer Science & Cognitive Psychology, Interaction Design Minor
GPA: 3.584/4.0
Relevant Courses: Algorithms and Data Structures, Artificial Intelligence, Data Visualization, Database Design, Human Computer Interaction, Interaction Design, Object Oriented Design, Software Development

PROJECTS

Chester Park Green Space Data Visualization
- Surveyed local residents and park goers in Chester Square park to analyze their usage, interests, and goals for the green space
- Created interactive data visualizations using D3 to report findings to the Friends of Chester Square Park neighborhood association

Decisions
- Upgraded a Pros-Cons mobile app to create a full fledged decision making app
- Used Adobe XD to create a working prototype with new color choices, more features, and better user interaction flow by conducting user interviews and paper prototyping

Stress Box at the Ars Electronica Facade
- The Ars Electronica Center/Museum in Linz, Austria has an interactive LED light display facade that can be altered through code using Processing. For our Creative Coding class, we made a bouncing box that lights up the entire wall when it perfectly aligns with a corner
- Used Processing, randomization, generative art principles, and collision detection to create this engaging light up display for the viewers and residents of the museum to enjoy at night

Boston Crime Database
- Created a database with a logical and conceptual model for Boston Crime incidents reported using a Kaggle dataset.
- Constructed data visualizations using MySQL and Tableau to answer questions about time, crime type and location.
- Aided in development of a website (www.sarahchou.github.io/BostonCrimeDatabase) to host our data visualizations for our team's final project for CS 3200.

Taskable
- Designed, implemented, and evaluated a user interface for a Java Swing to-do application for group projects.
- Created paper prototypes, conducted user testing and user interviews for several iterations of the project. Made for Human Computer Interaction IS 4300.

Music Editor
- Utilized MVC pattern to build a "music editing" application which, given MIDI files, provides console, visual, and audible "views" of the song.
- Used Java Swing and Java MIDI libraries, and git for version control. Built for Object Oriented Design CS 3500.

P.U.S.H. (Preventing Unwanted Social Harassment)
- Android mobile app that uses Bandwidth's texting API to notify a group of contacts a predetermined message at the tap of a permanent push notification on the home screen.
- Designed and implemented the UI.
- Collaborated with two others at PearlHacks UNC, won award for Best Mobile App.

SKILLS

LANGUAGES: Java, Python, bash, SQL
OTHER (FAMILIAR): Terraform, Ansible, HTML, CSS, JavaScript, Android, iOS, Unity, Jenkins, AWS, Tableau, Docker, Vagrant, VirtualBox, D3
DESIGN: Figma, Adobe XD, InDesign, Photoshop, Illustrator, Balsamiq

EMPLOYMENT

VISTAPRINT
Software Engineering Co-op · Waltham, MA
Jan. 2019 to June 2019
- Created a Slack bot to send scheduled notifications of team availability, using Python, Slack's messaging API, and integrations with GitLab Runners.
- Updated Artifactory from installing Oracle's licensed version of Java to the free OpenJDK version of Java using Ansible.
- Migrated Windows packages from in-house build system to CloudBees Jenkins by updating project list files, building MSIs, and using chocolatey installs.
- Ran Docker containers and updated Docker images to assist with building the website locally to test package migrations.
- Wrote Ansible roles to install email central server packages that notify customers after every transaction.

GE HEALTHCARE
Software Engineering Intern · Waukesha, WI
June 2018 to Aug. 2018
- Built a command line application in bash using an API to automate the creation of Git and Jenkins projects with CI functionality.
- Wrote a Python script using HTTP requests to automate creation of GitLab repositories.
- Improved the quality of software internally to projects with Continuous Integration, Delivery, and Testing for FDA regulated medical devices before delivering directly to external end user customers.

RICK MENDES TECH LLC
Software Engineering Co-op · Hacienda Heights, CA
Jan. 2018 to June 2018
- Developed DevOps related products using Terraform, Ansible and Python 3 through a Systems Engineering design process to assist clients with faster, more efficient automation.
- Responsible for writing and testing Python code for the Generator product, which included a command line interface (using Python click), a graphical user interface (using Python tkinter), semantic models, a parser, and generators (using jinja2 HTML templating).

NORTHEASTERN KHOURY COLLEGE
Khoury College Fellow · Boston, MA
Sept. 2017 to Dec. 2019
- Selected as a Teacher's Assistant and mentor to first year students to represent Khoury College as a passionate, dedicated, motivated student leader
- Supported faculty by facilitating class discussion, sharing about personal experiences, hosting special programs and events, grading, attending planning meetings, and working with other Fellows

STATE STREET GLOBAL ADVISORS
Project Management Co-op · Boston, MA
Jan. 2017 to June 2017
- Organized and led daily meetings with app teams to discuss web server migrations, issues, and implications; took meeting minutes for future reference
- Created project plans for major projects involving the upgrade of the app server from JBoss 5 to JBoss 7 and met with owners of different app teams weekly to troubleshoot errors and ensure smooth migration
- Used UNIX/Linux to collect data on applications (dates last updated, size capacity, what apps were running on which node in the cluster) to present at biweekly meetings