KATE HIGA

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EXPERIENCE

IBM Software Developer (July 2018 - Current)   **San Jose, California**
- Front-end Developer on the commons canvas team in SVL, working on the common canvas, a UI module used for data modeling. Implemented in various IBM products such as Watson Studio's Modeler.
- Responsible for implementing new features, providing solutions for defects.

IBM, Security Systems Software Engineering Intern (Summer 2017)   **Emeryville, California**
- Utilized the **BigFix API** to improve the efficiency of the **Fixlet Debugger** tool by implementing a remote debugging feature in C++ to allow administrators to easily target and access information of any remote client computer.
- Improved the user-friendliness of outdated interface through reorganization of menu bar and an addition of an informative text-display to the QnA tab.
- Participated in daily stand-ups, gained exposure to **agile software development** practices, and presented a demo of new feature to the entire office at the end of summer.

Goodpatch, inc., iOS Development Intern (Summer 2016)   **Tokyo, Japan**
- Conducted **user research** and **user interviews** of numerous employees to address existing problems, then created several iterations of app solutions that would help alleviate issues while working alongside UI/UX designers and other iOS engineers.
- Fully designed and **developed** two internal iOS mobile applications to help alleviate work-efficiency issues, which were then presented and distributed for use to the entire company.

EDUCATION

University of California, Berkeley   **Graduation Date: May 2018**
B.A. Cognitive Science, Computer Science
Relevant Coursework

- **CS 61A**: Structure & Interpretation of Computer Programs
- **CS 61B**: Data Structures & Programming Methodology
- **DES INV 190:** Thinking like a Good Ancestor
- **CS 188**: Artificial Intelligence
- **COG SCI 131:** Computational Models of the Mind
- **CS 198**: Web Design
- **CS 61C**: Computer Architecture
- **CS 186**: Database Systems
- **CS 70:** Discrete Mathematics
- **DATA 100:** Data Science

SKILLS

Languages/Library: Javascript, React, Python, Java, HTML, CSS, JSON
Experience with: iOS Development, Agile software development, Git, Sketch software, Xcode, Visual Studios, Adobe Photoshop
Human Languages: English, Japanese

PROJECTS

English Shuffle Group iOS App   *Swift, Xcode, Firebase, Cocoapods*
- Implemented a formal system for managing the English-skill levels of all company employees by creating a database of English-skill profiles— utilized **Firebase** to allow realtime synchronizations of updates across web and mobile platforms.
- Designed and developed a user-friendly mobile interface for the database, and devised an algorithm for a "shuffle" feature to group employees into custom-sized English groups based on their English skill level.

Conference Room Booking iOS App   *Swift, Xcode, Firebase, Cocoapods*
- Provided a solution for the existing inefficient system of booking conference rooms by designing and developing a conference room booking app, focusing on user-friendly design principles.
- Main functionalities of the app include the ability to view and book conference rooms, end and extend reservations, and view individual conference room schedules.

Gitlet   *Java, IntelliJ*
- Designed and developed a **version control-system** from ground-up mimicking basic features of the popular file back-up system, Git.
- Incorporated basic git functionalities including the ability to save backups of files, restore a backup version of files, view history of backups, maintain commits, and merge branches.

General Anxiety Disorder Awareness Website   *HTML, CSS, Javascript*
- Designed and developed an educational website to raise awareness on mental health issues affecting the UC Berkeley community, as well as on various mental health resources available on campus.
- Focused on creating an engaging web interface tailored to UC Berkeley college students to maximize educational engagement.