

# MALLIKA CHENNUPATY

503- 801- 4071 [mdchennu@berkeley.edu](mailto:mdchennu@berkeley.edu) [www.linkedin.com/in/mallika-chennu](https://www.linkedin.com/in/mallika-chennu) <https://mdchennu.github.io/>

## EDUCATION

**University of California, Berkeley**

May 2022

Bachelor of Science, Electrical Engineering and Computer Science

**Courses:** Data Structures/Programming Methodology, Machine Structures Efficient Algorithms/Intractable Problems Designing Information Devices, The Structure and Interpretation of Computer Programs

---

## SKILLS

**Programming Languages:** Java, Python, SQL, Scheme, React Native

**Image Editing:** Photoshop, Illustrator, imageJ, Zephyr (an imaging software)

**Online Systems:** Git, Jupyter Notebooks, Figma

---

## PROJECTS

**Quokka Brew Mobile Application: Order/Delivery/Locator for Coffee**

- Prototyped a mobile application with a daily spin-the-wheel game, ordering features, map locator using Figma
- Implemented the ideated features using React Native, and a Shopify codebase with the Storefront API, and tested the application using Expo

**AQUA: Underwater Pipe Checking Device**

- Developed an aquatic device model using TinkerCAD and Photoshop, inspired by Echinodermata of starfish, used for checking underwater pipes in an efficient and environmentally safe manner
- Link to feature: <https://www.instagram.com/p/BxTmQaUBg2l/>

**BearMaps: Replica of Google Maps**

- Implemented the backend of a Google Maps-esque application of Berkeley with Java, the A\* algorithm, k-d trees

**Gitlet: Miniature Replica of the Git Version Control System**

- Engineered a simpler version of Git using Java with features such as checkout and merge using object serialization and hash identifiers
  - Created a design document to map out thought process and specify the data structures to create an efficient plan.
- 

## EXPERIENCE

**Intel Corporation: Client Computing Group, Portland, OR**

Software Engineering Intern

June 2020 - Present

- Developing Python scripts to automate simulation runs of internal modeling systems and increase user efficiency
- Enabling team of 20 individuals to gather simulation data, and conduct performance analysis at a faster rate

**Citris POLY-Pedal Lab: Insect Limb Motion Research, Berkeley, CA**

Undergraduate Research Assistant

June 2019 – Jan 2020

- Constructed virtual models of insect legs using Zephyr to 3D print models for analysis of limb motion
- Used imageJ to measure and identify correlations between insect leg attributes (like length and joint rotation angles)

**Welch Allyn, Beaverton, OR**

Intern

June 2017 – Aug 2017

- Increased the range of pupil width that an optical device can measure by 15% using Python, Git and Jupyter Notebooks
  - Enabled its usage in orphanages and old age homes in Asia through the increase in range of the device
  - Tested the modified code using model eyes and device in the lab, and performed data analysis using calibration curves
- 

## LEADERSHIP

**DiversaTech Consulting**

Project Manager and Previous Consultant

Jan 2019 - Present

- Conducted SWO analysis to provide recommendations to Jumpstart's (a recruiting platform) event hosting team
- Developed a Figma prototype and implemented ordering and gamification features of mobile application

**Data Structures and Programming Student Course Staff**

Lab Assistant

Aug 2019 – Jan 2020

- Teaching 50 students computer science concepts, including sorts and graphs, and answering homework questions

**FEMtech**

Launch Tutoring Program Lead

Aug 2019– Present

- Organizing community-oriented tutoring sections for women in lower division computer science classes
- Hosted the first female/nonbinary hackathon, FEMHacks, at Berkeley, with 60+ attendees and company sponsors