REINI LIN

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EDUCATION

UC BERKELEY | May 2021
B.A. Computer Science
GPA: 3.77

SKILLS

PROFICIENT: Java, Python, MATLAB, Git
FAMILIAR: Go, HTML, CSS, JavaScript, C

COURSEWORK

Algorithms & Intractable Problems
Data Structures & Algorithms
Computational Photography
Computer Architecture
Probability & Random Processes
Computational Biology*
Discrete Math & Probability Theory
Foundations of Data Science
Information Devices & Systems*
** indicates courses in progress*

AWARDS

- **DEAN'S HONOR LIST**
  Top 1/10 of students by GPA
- **CHEVRON SCHOLARSHIP**
  One of 7 students chosen based on a project in renewable energy
- **SOCIETY OF WOMEN ENGINEERS AWARD**
  Chosen from a nationwide pool of engineering students based on community service and leadership
- **SILICON VALLEY ENGINEERING COUNCIL AWARD**
  One of 3 students chosen based on an interest in engineering

EXPERIENCE

SAMSARA | Software Engineering Intern
June 2020 | San Francisco, CA

- Working on a full-stack project to create a new feature allowing users to upload, save to AWS, and retrieve files for compliance purposes
- Adding a database migration, developing RPC endpoints, incorporating a GraphQL layer, and implementing the front-end user-facing dashboard

CARL ZEISS MEDITEC AG | Software Engineering Intern
June 2019 – Aug 2019 | Dublin, CA

- Built a cloud-based algorithmic workflow to decrypt a TensorFlow model and automatically detect medical abnormalities in optical scans
- Evaluated and implemented encryption methods for TensorFlow deep learning models used in optical image classification
- Wrote a script to quantify sensitivity, specificity, and overall performance of TensorFlow models in locating disease indicators for 25,000+ optical scans
- Created functions to process optical images, register images, adjust for noise, and calculate statistics for image quality analysis

CHEVRON CORPORATION | Engineering Intern
May 2018 – Aug 2018 | Houston, TX

- Developed test procedure, led testing, and evaluated results to investigate new oil-water separator technology for open drain system
- Wrote a script to automate analysis of pressure safety valve production impact and identify optimization opportunities for future documentation

PROJECTS

WORD OF THE DAY CHROME EXTENSION | *JavaScript, jQuery, HTML, CSS*

- Designed and built a Chrome new-tab extension using an open-source web scraping API to display the Merriam-Webster Word of the Day and definition

COMPUTATIONAL PHOTOGRAPHY | *Python*

- Developed functions to auto-stitch panoramas, blend images with Gaussian/ Laplacian stacks, align images with image pyramids, create a face morph video, alter depth refocusing, and classify architecture using neural networks

BEAR MAPS | *Java*

- Developed a Google Maps-like application to explore Berkeley locations
- Implemented autocomplete, A* pathfinding using K-dimensional trees, image raster during zoom, and location lookup features for local deployment

TEXT PREDICTOR | *Java*

- Created automated text predictor that cleans data, trains on input text, and generates text using Markov chain predictions from word sequences

ACTIVITIES

TAU BETA PI – ENGINEERING HONOR SOCIETY | *Secretary, Vice President*

- Hosting 50+ corporate, professional development, and social events each semester to promote community among 150+ candidates and officers
- Volunteering to teach Engineering 98, a weekly professional development course for 20 freshman engineers

UC BERKELEY BIOENGINEERING – MURTHY LAB | *Researcher*

- Analyzed data to optimize activity of methionine gamma-lyase and blocked variants; worked to understand the effect of blocking mechanisms on enzymatic activity for signal amplification and therapeutic applications