REINI LIN

reini.lin@berkeley.edu | 925-683-5736
reinilin.github.io | linkedin.com/in/reini-lin

EDUCATION

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

SKILLS/TECHNOLOGIES

PROFICIENT
Java, Python, Golang, Git
FAMILIAR
NumPy, SciPy, JavaScript, TypeScript, React, HTML, CSS, C

COURSEWORK

Algorithms, Data Structures, Data Science, Database Systems*, Computer Architecture, Discrete Math, Probability & Random Processes, Computational Biology*, Computational Photography, 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 | *Full-Stack Software Engineering Intern*
June 2020 – Aug 2020 | Golang, gRPC, TypeScript, React
- Created a new feature from scratch allowing users to upload to AWS, display, and manage media files in a front-end dashboard
- Implemented a database model, implemented GraphQL API endpoints, and wrote RPC methods to create, update, delete, and retrieve files
- Developed user-facing dashboard with summarized reports, drag-and-drop upload, file previews/renewal warnings, and search functionality

CARL ZEISS MEDITEC | *Software Engineering Intern*
June 2019 – Aug 2019 | Python, TensorFlow, MATLAB
- Built an algorithmic workflow to encrypt/decrypt TensorFlow models and automatically detect medical abnormalities in 25,000+ optical scans
- Wrote a script to quantify sensitivity, specificity, and performance of TensorFlow models in finding disease indicators for optical scans
- Implemented 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
- Developed test procedure, led testing, and performed data analysis to investigate environmental impact of new oil-water separator technology
- Automated analysis of pressure safety valve production impact and recommended future optimization strategies

PROJECTS

WORD OF THE DAY CHROME EXTENSION | *JavaScript, HTML, CSS*
- Designed and built a Chrome new-tab extension using a web scraping API to display the Merriam-Webster Word of the Day and definition

AUTO-STITCHING IMAGE PANORAMAS | *Python*
- Identified correspondences using Harris Point Detector, extracted features using a Gaussian filter, computed feature similarities, determined a homography for an affine warp using RANSAC, joined images using multi-resolution blending with custom blending masks

TEXT PREDICTOR | *Java*
- Created a 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, VP*
- Hosting 50+ corporate, professional, and social events each semester to promote community among 150+ candidates and officers
- Volunteered to teach Engineering 98, a weekly professional development course for 20 freshman engineers