ELDEN LI

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EDUCATION

University of California, Berkeley *Expected Grad. Spring 2021*
B.A. Computer Science **GPA: 3.6**
Branham High School *Grad. Spring 2017*
ACT: 35 (E: 35, M: 36, R: 34, S: 35) **Weighted GPA: 4.6/4.0**

RELEVANT COURSES

- **Computer Science:** The Structure and Interpretations of Computer Programs, Data Structures, Machine Structures, iOS Programming and Design Decal, Introduction to Artificial Intelligence, Computer Security, Introduction to Machine Learning
- **Data Science:** The Foundations of Data Science, Principles and Techniques of Data Science
- **Mathematics/Theory:** Discrete Math and Probability Theory, Efficient Algorithms and Intractable Problems, Multi-variable Calculus, Linear Algebra

SKILLS

Programming/App Development/Machine Learning

- Java, Python, MySQL, Firebase, HTML5/CSS3, Javascript(Angular, Node), Swift, Flask, Pandas, Numpy, Soup

Industry/Others

- Microsoft Excel, Database Management, Complex Searches, Cybersecurity/Edge Encryption, Git, Leadership, English, Mandarin, Cantonese

PROFESSIONAL EXPERIENCE

ServiceNow, Inc. - *Software Engineering Intern - Edge Encryption* *May 2019 - Dec 2019*

- Created an Edge Encryption framework using AES-256 that encrypts all customer data on the client side and stores only cipher-text in the database
- Added search features including contains-search, prefix-search, and infix-search on >500,000 entries of encrypted data in <300 milliseconds
- Implemented AVL Trees on both the client and server side to establish a model of JSON-communication for changes to the clear-text and cipher-text trees during insert and search operations
- Achieved a breakthrough in company platform security yet maintained performance through efficient tree-balancing and database management

ServiceNow, Inc. - *Software Engineering Intern - Platform Development* *May 2018 - Aug 2018*

- Implemented the *Component State Validation* test step configuration for ServiceNow's automated testing framework by designing a page crawler that allows the user to validate the states (read-only, mandatory, etc.) of different HTML components on custom UI pages.
- Kept track of detailed nightly demo tests to ensure a bug-free testing framework and the best user experience for all customers
- Delivered production code to the Madrid release

PROJECTS

- **Log-In System Demo:** Implemented a full-stack user management login system featuring different user permissions and capabilities, ensuring security integrity through TFA and login authentication `https://github.com/elden-li11/MERNLoginDemo` (*MongoDB, ExpressJS, ReactJS, NodeJS*)
- **Peazy Pay:** An iOS location-based credit card payment optimization app that uses a custom algorithm to inform the user which credit card will provide the greatest benefit based on the store they're visiting with the use of Google Maps API, Google Places SDK, other third-party APIs. `https://github.com/armanvaziri/PeazyPay` (*Swift, Firebase*)
- **Privacy Guard (Cal Hacks 5.0):** Designed a door-attachable magnetic sensor which, upon detecting movement, sends a signal to a Google Chrome extension that deletes all incognito tabs in 10 milliseconds `https://github.com/f16falcona46/Calhacks_2018` (*Tcl, Java, JS, Lua, NodeMcu, SQLite*)