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JACOB BLAND

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SF BAY AREA

EDUCATION

Berkeley, CA	**University of California, Berkeley**	**Aug 2018 — Dec 2021**

- Electrical Engineering and Computer Science, Bachelor of Science
- Relevant Coursework: Algorithms; Data Structures; Operating Systems; Compilers; Artificial Intelligence; Information Devices and Systems
- Collaborated with research groups in Computer Security and Economics
- GPA: 3.97

EMPLOYMENT

Data Engineer, Intern	**Square**	**Summer 2021**

- Developed efficient SQL scripts that operate on billions of entries in production databases daily.
- Engineered location specific metrics which was crucial to Square's expansion into 4 new countries.
- Led a team of 4 to develop a novel user-facing feature for the Cash App mobile application which placed 1st in a company hackathon and is being considered for a rollout to their more than 30 million active users.

iOS Software Engineer, Intern	**Square**	**Fall 2020**

- Brought support for a new bluetooth connected barcode scanner to 2 iOS applications for iPhone, which are used by over 300,000 people.
- Resolved more than 5 long-standing bugs plaguing the production iOS application, and caught at least 1 more by scrupulously reviewing code from teammates.
- Volunteered to handle off-hour pings to the team for time-sensitive issues, quickly investigating issues and deploying fixes.

Software Engineer, Intern	**Menlo Security**	**Summer 2020**

- Created a repository in Go to rapidly handle encryption and data streaming which would be used by over 10 backend engineers across the company.
- Drove the adoption of Go for other backend systems by presenting on its edge over NodeJS to leadership.

Junior Programmer	**Conexus AI**	**Spring 2020**

- Developed a JavaScript program that generated complex MySQL queries which a database administrator could use to better understand their need for our products.
- Designed a website with HTML and CSS to host this client-side program, which subsequently attracted a number of enterprise customers.

ADDITIONAL PROJECT

- Audio Responsive Car: Built a small car which responded to 4 different voice commands by programming a microcontroller with C-style code and implementing machine learning techniques with Python.

Technologies and Skills

Python, C, Database Management (SQL), Mobile Development (Obj-C and Swift), JavaScript, OCaml, Git