

# Kobe Braga

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## Education

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**University of California, Riverside**

**September 2019 – March 2023**

*Bachelor of Science in Computer Science*

GPA: 3.78/4.0

**Relevant Coursework:** Artificial Intelligence, Compiler Design, Computer Security, Data Science, Data Structures and Algorithms, Discrete Structures, Operating Systems, Software Engineering

**Awards:** Cum Laude, Chancellor's Honor List, Dean's Honor List

## Technical Skills

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**Languages:** C++, Python, HTML, CSS, JavaScript, Bash, SQL

**Developer Tools:** Git, Github, Jest, ESLint, GTest, CMake, Firebase, Firestore, MySQL, MongoDB, Linux, Docker

**Technologies/Frameworks:** React, Node.js, Express, Gatsby, NextJS, TailwindCSS

## Experience

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**Honda**

**June 2022 – August 2022**

*Information Technology Intern - Enterprise Architecture & Network Engineering*

*Torrance, CA*

- Analyzed and presented 7 distinct security threat models to enhance software development security, fostering a proactive approach to mitigate potential risks among software engineers
- Built a comprehensive security resources website using **React**, integrating data from 4 different security sources' APIs to centralize security knowledge, improving click depth by 25% to enhance user experience
- Constructed a **Python** machine learning application utilizing **Keras** to train a model for classifying car orientation for service engineers with 83% accuracy, reducing manual image tagging efforts by over 40%

**Deepbits**

**June 2021 – August 2021**

*Software Engineer Intern - Cybersecurity*

*Riverside, CA*

- Investigated 200+ vulnerabilities & patches on open-source projects to improve AI vulnerability detection by 23%
- Engineered **Python** & **Bash** scripts to automate parsing of 200+ Common Vulnerabilities and Exposures (CVEs) from Mitre, optimizing parsing efficiency by 35%
- Utilized **Ghidra** to cross-compile vulnerable and patched binary files of various software applications, enabling efficient analysis and comparison of security vulnerabilities across different platforms and architectures

## Projects

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**Air-Quality Index** | *Javascript, React, Node.js, Express.js*

**May 2022**

- Spearheaded development team of 4 to construct a CRUD web app to query 1,000,000+ Kaggle air quality statistics
- Configured 7 API endpoints via **Node.js** to display dynamic **ApexChart** heat-maps, bar-graphs, and scatter plots, enabling interactive visualization of data for users
- Developed 4 CSV parsing algorithms to reduce network response time by >325ms and network payload by 40%

**AniChat** | *Javascript, Firebase, Firestore Hosting, Google Authentication*

**August 2021**

- Established a full-stack **React** messaging app allowing users to log in and chat in different rooms
- Integrated **Firebase Firestore** to store and query 2000+ chat room messages and deployed via **Firebase Hosting**
- Implemented protected user login via **Google Authentication** permitting users to have personal profiles and messages

**Wavez** | *C++, Valgrind, GoogleTest*

**December 2020**

- Managed a development team of 3 to develop a **C++ application** allowing users to read & write music reviews
- Designed 3 UML diagrams to model Strategy, Composite, and Facade design patterns used to architect 8 classes
- Composed unit tests for file IO and user login with 85% code coverage using **GoogleTest** and **CMake**, ensuring robustness and reliability of the software

## Leadership / Extracurricular

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**Association for Computing Machinery (ACM)** | *Event Manager, Member*

**September 2019 – March 2023**

- Coordinated event logistics for 10+ workshops and general meetings with 75+ person attendance
- Initiated hybrid meetings via streaming in-person events on Zoom, increasing our member accessibility by 40%
- Assisted 2 mentees involving one-on-one technical and professional development in mentor program

**Cyber@UCR** | *Competitor (Linux Admin), Member*

**July 2020 – March 2023**

- Competed in 6-8 person cybersecurity teams to place top 3 in various regional and national competitions, leveraging technical expertise and collaborative skills
- Operated **MySQL**, **Docker**, **Apache2**, **Nginx** services as **Linux Admin** in WRCCDC competitions
- Participated in bi-weekly meetings regarding topics including Incident Response and Web Application Security