PEDRO PACHUCA RODRIGUEZ

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EDUCATION & COURSEWORK

UC Berkeley - Management, Entrepreneurship, & Technology Program   **Expected May 2022**

Dual Degree: B.S. Electrical Engineering & Computer Sciences/B.S. Business Administration

Relevant Coursework: The Structure and Interpretation of Computer Programs, Designing Information Devices and Systems, IEOR Advanced Topics: Machine Learning, Principles of Business, Entrepreneurial Leadership, Data Structures*, Discrete Mathematics and Probability Theory*, Computer Security*   *Completed by May 2020

Amador Valley High School, Pleasanton, CA   **2015-2019**
- Computer Science Club President; FBLA Vice President; ACE Coding Branch Director; AVBotz Software Engineer

Las Positas College, Livermore, CA   4. 0 GPA   **2017-2019**

RELATED EXPERIENCE

Facebook, Menlo Park, CA | *Facebook University Engineering Intern*   **May 2020 - July 2020**
- Incoming FBU Intern at Facebook HQ in the Mobile App Development Engineering Team

Fireflies.ai, Livermore, CA| fireflies.ai | *Security Architect Intern*   **Feb 2019 - May 2019**
- Primary Author of the Fireflies.ai Information Security Policy used by IBM, Microsoft, AT&T, SAP, and Samsung

Las Positas College, Livermore, CA | *Secondary Instructor*   **Jun 2018 – Jun 2019**
- Independently Contracted to teach Computer Security and Digital Forensics to over 200 undergraduate students

Fulcra, Pleasanton, CA | getfulcra.com | *Co-Founder and Head of Systems*   **Jan 2018 – Present**
- Presented to the 116th Congress and Sponsors on Capitol Hill

SKILLS

- Proficient in: Languages: Python, C++, Java, Shell, JS, mySQL, and Swift | Libraries: NumPy, SciPy, TensorFlow, Keras
- Professionally experienced and internationally ranked in Computer Security
- Knowledgeable about Positive Deviance/Anomaly Detection, Security, Networking, Cryptography, and Machine Learning
- Experienced teacher with over 1000 hours of active teaching and over 5000 students up to the undergraduate level

LEADERSHIP & ACTIVITIES

Machine Learning @ Berkeley, Berkeley, CA | ml.berkeley.edu | *ML Engineer*   **Sep 2019 – Present**
- Created Machine Learning model to detect server-side (D)DoS threats using network traffic data

SportVue LLC, Berkeley, CA | *Co-Founder*   **Aug 2019 – Present**
- Developing training aid using attitudinal positioning system for hockey safety applications
- Presented at the Berkeley College of Engineering Dean's Society Research Spotlight and Innovators @ Cal

Aerostry, Berkeley, CA | *Co-Founder*   **Aug 2019 – Present**
- Developing real-time map of the concentrations and projected distributions of air pollutants
- Recipient of the Sutardja Dai CITRIS Spark Grant and the CITRIS Tech for Social Good Grant

Competitive Computer Science Club, Pleasanton, CA | *President*   **Aug 2016 – Jun 2019**
- Gained Local, State, National, and International Recognition in Computer Security and Algorithmic Programming

PUBLICATIONS & EVENTS

- McFarlin and Pachuca Rodriguez. "Monitoring the Spread of Mountain Bark Beetle Infestations Using CNNs." *Toshiba ExploraVision.* 2018
- Pachuca Rodriguez et al. "Amador Valley Robotics Club: Design of Marlin AUV 2018." *AUVSI RoboSub Journal.* 2018
- Congressional App Challenge Winner's Presentation and Reception 2019, Washington, D.C.
- Google Hispanic Student Leadership Conference 2019, Sunnyvale, CA
- Future Business Leaders of America National Leadership Conference 2018, Baltimore, MD
- Judge at the 2019 SAGE Global Entrepreneurship Competition, Berkeley, CA

AWARDS & ACHIEVEMENTS

- Top 80 worldwide in Computer Problem Solving, Top 1% worldwide in Computer Security, USACO Platinum--Top 150 USA
- Developed and sold iPhone app at 13 that organized product waves for the microcontroller industry
- Association of Unmanned Vehicles Systems Intl RoboSub Collegiate Competition Semifinalist
- Coca-Cola Scholarship Semifinalist
- Congressional App Challenge winner for FL07
- Hispanic Scholarship Fund Scholar and Scholarship Recipient
- Bronze Medal in Princeton Physics Explorer Competition
- Toshiba 2018 ExploraVision Honorable Mention
- 5/5 on 12 AP Exams; 36/36 ACT; National Hispanic Scholar; National AP Scholar; Jose Maria Amador Award