PEDRO PACHUCA RODRIGUEZ

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EDUCATION & COURSEWORK

UC Berkeley - Management, Entrepreneurship, & Technology Program   **Expected May 2023**

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, Entrepreneurship in Sports Technology

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

RELATED EXPERIENCE

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 – Aug 2019**
- 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 Researcher*   **Sep 2019 – Present**
- Developed Machine Learning model to detect server-side (D)DoS threats using network traffic data
- Researching 3D shape representation and completion in the Sastry Group in Berkeley AI Research (BAIR) Lab

SportVue LLC, Berkeley, CA | *Co-Founder*   **Aug 2019 – Present**
- Developing training aid using attitudinal positioning system for hockey safety applications. Two patents pending.
- Developing concussion detection devices for youth sports
- Presented at the Berkeley College of Engineering Dean's Society Research Spotlight and Innovators @ Cal
- Deferred Facebook SWE Offer for Summer 2020 to Summer 2021 to work full time on this startup

Aerostry, Berkeley, CA | *Co-Founder*   **Aug 2019 – Jan 2020**
- Developed modeling tool to predict the distributions and concentrations of airborne substances
- 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 National Hispanic Leadership Conference 2020, Google Regional Hispanic Leadership Conference 2019
- Future Business Leaders of America National Leadership Conference 2018, Baltimore, MD

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