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ANDRES MANCILLA VALDEZ

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EMPLOYMENT

Orientation Leader UC San Diego May 2020 – September 2021

- Guided 600 incoming freshman and transfer students at Revelle College, UCSD.
- Facilitated more than half a dozen orientation presentations – received extensive training on social justice, intersectionality of identity, and ethnicity.

Hackathon Director DataHacks June 2020 – June 2021

- Led and orchestrated annual UC San Diego data-focused hackathon; hired 25 motivated individuals.
- Served a large and diverse group of more than 300 UC San Diego students.
- Developed sponsorship package to encourage industry involvement.

SWE Intern JV Express Inc. November 2020 – January 2021

- Deployed Node application using AWS services.
- Created AWS EC2 instance and established port 3000, 80 (HTTP) and 443 (HTTPS) as inbound rules in EC2 Security Groups. Launched live server using Project Manager 2.
- Routed traffic to domain via AWS Route53. Acquired SSL certification by launching Lets Encrypt certbot.
- Redirected HTTP traffic to HTTPS in Express server to increase security of data transfer.

SWE Intern Nakamura Partners June 2020 – July 2020

- Led custom product development of an SMS-based system for a multi-clinic health center client to help them connect with patients in a HIPAA-compliant way.
- Developed an in-house procure-to-pay system, used to verify purchase orders.

EDUCATION

La Jolla, CA University of California: San Diego Fall 2019 – June 2022

- B.S. in Mathematics - Computer Science. In-major GPA: 3.3
- Undergraduate Coursework: Compilers; Computer Architecture; Design and Analysis of Algorithms; Advanced Data Structures; Digital Design Techniques; Programming Languages; Theory of Computation; Combinatorics; Modern Algebra; Numerical Analysis -- Approximation and Nonlinear Equations

TECHNICAL EXPERIENCE

Projects

- **IEEE574 Calculator** (2021). Convert a hexdec to IEEE. Written in ARM assembly. Ran using raspberry cluster.
- **Mailing List Subscription** (2020). Mail Chimp API, built to subscribe students interested in DataHacks.
- **TODO List** (2021). Passed data between server and EJS files and rendered database items in app. Created custom lists using express route parameters.
- **Cattle GPS System** (2019 – Present): Programmed two Arduino boards in C, one as a receiver and the other as a transmitter, to create a GPS system which is intended to be used for tracking cattle.

ADDITIONAL EXPERIENCE

- **Mathematics Tutor (2016 – 2018)**: Tutored Calculus I-III, as well as Linear Algebra at Cuesta College.

Languages and Technologies

- C; Java; JavaScript; HTML; Python; CSS; MATLAB; R; ARM Assembly
- AWS Services; Visual Studio; Eclipse; git; IntelliJ; Linux/Windows; Azure App Service; JUnit; ReactJS; SQL; MongoDB; Mongoose; NPM; Bootstrap CDN