Andres Mancilla Valdez

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Education

University of California San Diego: B.S. in Math—Computer Science, **GPA: 3.337**, Grad Date: **Dec. 2021**

Professional Skills

Skills: AWS EC2, AWS Route53 DNS service, AWS Elastic Beanstalk, AWS CodePipeline, Azure App Service, NodeJS, Project Manager 2, ExpressJS, jQuery, ReactJS, JSX, Babel, Nodemon, Body Parser, Apache HTML, CSS, git, R Markdown, Bootstrap CDN, JUnit, SDLC

Languages: C++, C, R, Java, JavaScript, Python. **Fluent in Spanish (Native Mexican)**

Work Experience

Nakamura Partners — *Software Engineer I*   June 2020 -- PRESENT

Contributed to **new product development** for *Sally Health*, a **HIPAA-compliant** product to help health systems improve population health outcomes for patients with limited access to internet and language barriers. **Collaborated** with SE to construct *Invoice Automation System*, a custom **Robotic Process Automation solution**.

- **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**. Delivered effective patient engagement solutions by understanding end-users deeply. Responsible for **experience design**, system build on **Microsoft Azure**, integration with hospital EHR systems **via AWS API Gateway**, and **production deployment**.
- **Developed** a 3-way reconciliation module in **Java** for an in-house procure-to-pay system, using RESTful services in a team of 2. Used today to verify purchase orders. **Built** invoice obj. by using **Apache** to extract data from excel files.

Rancho De Los Encinos — *Software Engineer*   November 2020 -- PRESENT

Architecting from scratch, a unique Multi Page application, using **ExpressJS** as the back-end server hosted on **AWS EC2** and **ReactJS** to create **responsive interactions**. Designed custom implementation for dynamic social media buttons.

- **Front-end:** CSS with **BEM methodology** and break point styling; Hamburger menu, hover effects, full screen menu.
- **Back-end:** Incorporated **ReactJS components** to provide a **small**, **maintainable**, and **reusable** code base; **optimized control flow** of the site by incorporating **ReactJS Virtual DOM**. Handled **GET & POST requests** to serve corresponding files with **ExpressJS**; served router functions files to render on browser. Implemented **jQuery** for event handling.
- **Hosting:** Created **AWS EC2** instance, SSH into instance and **deployed Node Application**. Established port 3000 as an Inbound Rule in **EC2 Security Groups**. Kept server running using **Project Manager 2 (NPM)**. Routed traffic to domain via **AWS Route53**.

Data Hacks (Data Science Student Society) — *Director*   June 2020 -- PRESENT

Lead and orchestrate the annual UC San Diego data-focused hackathon. Scheduled to serve a large and diverse group of more than **300 UC San Diego students**. Part of the **Data Science Student Society 2020-2021 panel.**

- **Hired and energized** a team of **zealous and driven** students for respective committees: Marketing, Sponsorship, Finance, Tech, and Logistics. **Executed responsibilities** among a committee of **25 motivated individuals.**
- **Developed** a sponsorship package for companies interested in supporting Hackathon.
- **Established** incentives to further **encourage industry involvement**.

UCSD — *Orientation Leader*   May 2020 -- October 2020

Guided 600 incoming **freshmen** and **transfer** students at Revelle College UCSD in a **team of 35 leaders.**

- **Facilitated** more than half a dozen orientation presentations – received extensive training on Social Justice, Intersectionality of Identity, and Ethnicity. **Encouraged** team building by **engaging** groups of 15 first year students, in discussions about social issues and academia.

Hobbies

- Horse trainer, Avid surfer
- Has dream of riding saddle bronc horses in PRCA
- End goal: **Impacting cattle/equine industry with software**