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MANAN SURANA

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EMPLOYMENT

Software Engineer, Intern	**NAKAMURA PARTNERS**	**June 2020 - August 2020**

Automating the Process of Reading/Storing an Accounts Payable Invoice
- Built a 3-way reconciliation module in Java for an in-house procure-to-pay system using cloud-native **Java** and **RESTful services**.
- Designed the front end of a internal employee satisfaction scorecard (in **React** and **NodeJS**) and produced an executive dashboard in (tableau) as part of in in corporate function development project advised by **McKinsey & Company**
- Currently being used to pay for goods and/or services rendered
- Also being used for the purposes of (1) preparing statements for the IRS, and (2) comparing the invoice to their timesheet(s)

Research Intern	**Villa Lab, University of California San Diego**	**July 2020 – Present**

- In a team of two, creating and managing an evolving and scalable relational SQL database (in **MySQL**) for researchers in the lab to systemically store and visualize their Electron Microscopy data. Will later be extended to an online portal to look up data in the database (in **React, NodeJS, ExpressJS**) using RESTful Services.
- Contributed a component to a data-processing pipeline application in **Python** that auto-fills the database with the files present in the user-browsed directory. Helped lab **improve** operational efficiency, **increased** data throughput and **decreased** variance in quality.

Tech Lead	**DataHacks (Data Science Student Society)**	**March 2020 – Present**

- Mentoring students at DataHacks 2020 organized by the Data Science Student Society.
- Planning and Organizing the annual UC San Diego DataHacks which will serve 250 students

Freelancer	**Web Designer and Developer**	**March 2020 – Present**

- Designed and Developed a website for a small business located in the Democratic Republic Of Congo
- Landing Page, About Us Page and a Product Page. Built a RESTful API (in **ExpressJS** and **NodeJS**) which queries product in a MySQL database and renders information to the front-end made using **React**

EDUCATION

San Diego, CA	**University of California San Diego**	**Fall 2018 – June 2022**

- B.Sc. in Cognitive Science with specialization in Machine Learning and Neural Networks with Minor in Computer Science. In-major GPA: 3.44.
- Undergraduate Coursework: Advanced Data Structures, Mathematics for Algorithms and System Analysis, Discrete Math, Data Structures and OOP Design

PERSONAL PROJECTS

Projects
- **Tweet4Me (2019)** : A Twitter-based client app made using the Twitter API that allows users to log-in and view their feed. Users can also like, retweet, and refresh their live feed. **Swift/ Parse/ Alamofire**
- **Flix (2019) :** A movie browsing that lets a user view and scroll through a list of movies. Gets data from The Movie Database API and displays it in a scrollable list in your app. **Swift**

Languages and Technologies
- Java, Javascript, Python, HTML5, CSS3, Swift, C, C++
- ExpressJS, NodeJS, React, JQuery, MySQL, Bootstrap, MaterialUI, AWS