Pranav Lodha

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PROFESSIONAL EXPERIENCE

Senior Software Engineer | Mixhalo | San Francisco, CA   October 2021 - Present
- Leading creation of new architecture to automate process and increase product resilience
- Developing and deploying low latency applications to AWS, GCP and Azure
- Bring analytics and data process to the team

Data Science Fellow Usage Explorer | SAP | Palo Alto, CA   Jan 2021 – October 2021
- Building a new product to analyze usage patterns and other insights within different SAP products
- Predicting customer churn, product feature impact, and product usage analysis, uplift modeling, down-sell modelling
- Usage Explorer is part of SAP.io's and CreateX startup incubator, Hasso Plattner Innovation award Finalist 2020

Software Engineer/Technology Consultant | SAP | Palo Alto, CA   Jan 2019 – October 2021
- Java & UI5 developer working on BPM/Rules Engine product development, available on SAP Business Technology Platform
- Automate SAP ERP Deployment with Terraform and Ansible, and SAP HANA database error detection with python to the cloud
- Develop & manage strategic program "Project Thunder", which provides customers guidance to migrate to the cloud (AWS, GCP, Azure)
- Manage "10 Steps to SAP S/4HANA" strategic program within Americas for 30+ customers & globally for 1000+ SAP consultants

Associate Software Engineer | Infosys | Palo Alto, CA   Oct 2018 – Jan 2019
- Delivered scalable & high-performance software to customers & provided modern tools & feature enhancements for products
- Created web-based portal to efficiently manage day-to-day operations at a computer store to provide cost efficient solutions

Finance Intern | Stanford Children's Hospital | Menlo Park, CA   June 2016 – Sep 2016
- Analyzed & calculated future values of restricted assets & pledged donations (properties, stocks, cash)
- Designed MS-Excel recording system to manage $100 million of assets, resulting in increased efficiencies, easier access to funds & growth

PROJECTS

Flappy Bird High Score   Aug 2020 – Dec 2020
- Developed a Double Dueling Deep Q Network (D3QN) Reinforcement learning algorithm to train model
- Utilized Python and PyTorch, Serving model using Tensorflow Extended (TFx)

X-Ray Anomaly Detection using GAN's   Aug 2020 – Dec 2020
- Utilized TensorFlow, & PyTorch to develop multi-layer models to find anomalies in an X-Ray using f-Anogan and Alphagan Models
- Developed containerized web-app that accepts x-ray and outputs x-ray image with anomalies shown

California Reservoir Outflow Prediction   Aug 2019 – Dec 2019
- Built model on top of Facebook Prophet to predict future water levels in reservoirs based on over 20 features
- Utilized Python to gather large amounts of data from various sources and reduced using Hadoop

Text.Book   Sep 2017 – June 2018
- Led team to build business case; financial modeling, development costs, sales projections, sensitivity/market analysis for low cost
- Designed & created go-to-market plan (such as target customers & channel strategy) for e-reader
- Planned for demand forecasts based on time-series analysis using Holt's & Winter's methods

EDUCATION

MS, Software Engineering | San Jose State University   Aug 2019 – May 2021
- *Coursework:* Data Mining, Large Scale Analytics, Enterprise Software Platforms, Deep Learning, Machine Learning, Software Systems Engineering, Reinforcement Learning, Emerging Software Technologies
- "Using Deep Learning Time Series Forecasting to Predict Super-Spreads of COVID-19" | Advisor: Dr. Ali Arsanjani

BS, Technology & Information Management | University of California, Santa Cruz   Sep 2014 – Aug 2018
Minor, Economics
- *Coursework:* Database Systems, Data Mining, Algorithms & Abstract Data Types, Data Structures & Algorithms (C, Java), Computer Networks, Business Strategy & IS, Systems Analysis & Design, Economics of Acct., Micro/Macroeconomics, Personal & Business Tax, Managerial Acct.

SKILLS & TOOLS: Data Science, Statistics, Solutions Architecture, Weka, Microsoft Office, Git, Firebase, Adobe Photoshop, Slack, Trello, Calendly, G-Suite, Salesforce, SAP ERP, AWS, GCP, Azure, Peoplesoft, Docker, Kubernetes, SAP HANA, Terraform, LetsEncrypt, Traefik, Jira, Flask, Spring framework, MySQL, PostgreSQL, Mongo-DB, Sketch, SUSE, RedHat, UI5, Angular, React, JavaScript, python, C, Java, MIPS, HTML5, CSS, Jupyter Notebook, Google Colab, Scala, Hadoop, Sci-kit learn (random forest, Linear regression, logistic regression), TensorFlow, TensorFlow Extended, PyTorch