

# Randy Ip

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## EDUCATION

**Hack Reactor** | Advanced Software Engineering Certificate 12/2022  
**San Jose State University** | M.S. Statistics 01/2022

- Linear Regression | Classification | Clustering | Neural Networks

**University of California Davis** | B.A. Economics 05/2015

## PROFESSIONAL EXPERIENCE

**Machine Learning Engineer Intern** | Ethereum 08/2021 - 06/2022

- Led a team to build machine learning models for base fee behavior, leading to a revenue increase by giving 80% accurate predictions of fake customers.
- Used ARIMA machine learning models to compare simulation time series and real base fees.
- Analyzed statistically significant variables that affected base fee and demand.

**Quality Assurance** | Googain 03/2016 - 03/2018

- Compiled data for DTI (debt to income ratio), credit reports, and fraud which saved millions of dollars for the company by keeping in compliance with Fannie Mae and Freddie Mac.
- Communicated with the federal mortgage companies.
- Presented data in live conferences with Fannie Mae and Freddie Mac.

## TECHNICAL SKILLS

**Machine Learning** | Keras | Tensorflow | Regression | Neural Networks | Time Series  
**Front End** | JavaScript (ES5 and ES6), TypeScript, Angular 9, React, HTML5, CSS3, Sass, Redux  
**Back End** | Node.js, Nest.js, Express, Nginx, PostgreSQL, MongoDB, MySQL, Python, RESTful API Development  
**Testing/Deployment** | Jest, Mocha, Chai, K6, Loader.io, New Relic, AWS: EC2 / RDS / S3  
**Developer Tools** | Vim, Git, npm, Nx, Webpack, Babel, Agile Methodology, Scrum, TDD

## SOFTWARE ENGINEERING PROJECTS

**Full Stack Software Engineer** | Jarvis | [Github Repo Link](#) 09/2022 - Present

- Designed a custom deep neural network with 5 layers that can learn keywords from a given user. Can be trained to learn new words with 90% accuracy and with only one iteration of training.
- Includes features that coders often need in a browser such as performing Google searches, opening websites, and playing music.
- Techstack: PERN (Postgres, Express, React, Node)

**E-commerce Store** | Front-End Software Engineer | [Github Repo Link](#) 09/2022 - 12/2022

- Created a user-friendly fully functional e-commerce store with a Google Lighthouse accessibility score of 80.
- Added a logger that can keep track of users' clicks and time spent on the page.
- Optimized time to interaction by using minification, lazy loading, and compression. Reduced the time to interaction from 2 seconds to 60 ms.

**Server Design** | Back-End Software Engineer | [Github Repo Link](#) 09/2022 - 12/2022

- Refactored a legacy monolithic server system into microservices which was able to handle over 10,000 clients and was deployed to AWS.
- Optimized overall server design through pooling and caching. Increased throughput from 375 RPS to 3000 RPS while maintaining ~73 ms latency.
- Achieved target of 10,000 clients per second (do you mean requests per second?) by scaling to 3 AWS EC2? Instances behind an NGINX load balancer, while maintaining 77 ms latency.