# Apurv Singh

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## EDUCATION

**University of Maryland, Robert H. Smith School of Business** — ***College Park, USA***
Master of Science (M.S.) Information Systems — *Aug 2021 - Dec 2022*

**Manipal University Jaipur**, **Department of Engineering** — ***Jaipur, India***
Bachelor of Technology (B.Tech.) Computer Science Engineering — *Aug 2013 - May 2017*

## EXPERIENCE

**Dell**

**Universal payment portal for (C#, Angular, Lit-Elements, MySQL using microservices and micro front end, CI/CD)** ***Bangalore, India***
**Software Engineer 2** — *April 2020 – June 2021*

- Coded a universal payment portal based on micro-services, micro-frontend architecture
- Integrated a 'payment type factory' to cater to different forms of payment
- Created a responsive dynamically intelligent front-end that behaved specifically for respective payment type
- Reduced Page Load Time by 40% and payment nag/failure by 28% driving up 'Customer Satisfaction' metric

**Product Subscription (C#, Angular, MySQL, API, CI/CD)** **)**
***Bangalore, India***
**Software Engineer 2** — *April 2019– March 2020*

- Team lead for a user dictated product subscription feature for DellB2b
- Achieved a 100% frictionless (no nag) metric
- Won the peer recognition bronze award

**Global Portal (GP) Cart and Checkout (C#, AngularJS, MySQL, API)** — ***Bangalore, India***
**Software Engineer 1** — *Jun 2017– Jan 2019*

- Developed Dell's $18 billion (highest) revenue generating cart and checkout flow for the B2B Global Portal program
- Built a sophisticated geologically intelligent tax calculator using strategy pattern
- Drove up GP revenue by 25%, increased frictionless checkout metric to almost 100% and 'Customer Satisfaction' metric to 99.8%
- Won the peer recognition gold award

## PROJECTS

**Dell International Services India Pvt. Ltd.**

- Promoted within a year for increasing cart checkout flow revenue by 18% through team enhancement
- Constructed a Dell universal online payment portal reducing page load time by 40% and payment failure by 28%
- Coded a product subscription system as part of a team, drove up sales of qualifying items by 11%
- Led as second-in-command of site reliability team and helped fix obscure bugs on Dell b2b portal driving CSAT metric to 88%
- Led training and transformation of Testing Engineers (SDETs) to Full Stack developers

**Automotive Stock Price Prediction for Tesla, Ford and GM using Python and Machine Learning**

- Led a team of 5 under agile methodology analyzing closing values, sales volume, moving average, daily returns
- Used Long short-term memory (Recurrent Neural Network) for modelling and forecasting with over 80% accuracy
- Visualized using matplotlib and seaborn (pair plot, scatter plot, kernel-density-estimate plot)
- Risk analysis by comparing the expected return with the standard deviation of the daily returns of the stock

**Portfolio – React**

- https://my-portfolio-five-iota.vercel.app/
- A front-end only mobile-first portfolio built using React components, lifecycles and hooks
- Lighthouse 'Performance' and 'Best Practices' score of 100

**MERN Stack Shopping App - Node.js, REDUX, Stripe, JWT, MongoDB, API**

- An end-to-end e-commerce replica with state maintenance, JWT authorization and cart and checkout flow

## SKILLS

- **Tools**: Jupyter notebook, Tableau, Git, GitHub, MS Office Suite, Jupyter IDE, MySQL, Linear Regression, Multiple Regression, Confidence Interval, Probability Distribution**,** API, CI/CD
- **Programming Languages**: C# (ASP.net), JavaScript (Angular, React, Node.js, LitElements, jQuery), HTML, CSS, TypeScript, R programming, Python (Numpy, Pandas, Matplotlib, Scikit-learn), SQL,

## LEADERSHIP EXPERIENCE

**Dell Tech Transformation Program** — *Aug 2020 – Dec 2020*

- Led training and transformation of Testing Engineers (SDETs) to Full Stack developers

**Gramiksha, Rajasthan, India** — *Jan 2016 – Dec 2016*

- Led a team of 12 undergraduate students to help raise funds for underprivileged children in a rural village