JAY PANDYA

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https://github.com/jjjpanda
https://jjjpanda.github.io/me

EDUCATION

Stevens Institute of Technology   **Hoboken, New Jersey**

Master of Science in Financial Engineering   Aug 2020 – May 2021

- **GPA**: 3.81/4.00
- **Relevant Coursework**: Pricing and Hedging, Portfolio Optimization, Market Microstructure

Bachelor of Engineering in Software Engineering, Minor in Computer Science   Aug 2016 – May 2020

- **GPA**: 3.65/4.00, Dean's List 6 Semesters, Graduated with High Honor
- **Relevant Coursework**: Object-Oriented Software Engineering, Data Structures, Algorithms, Agile Methods, Software Modeling and Simulation, Software Testing & Quality Assurance

WORK EXPERIENCE

Revenite & National Security Innovation Network   **Remote**

Software Engineering Consultant   Oct 2020 – Jan 2020

- Build software for use by Department of Defense in rehabilitation of injured Army Rangers
- Consult for DoD-funded startup creating a physical therapy cross-platform React-Native app
- Design and implement backend API and MongoDB schema based on client specification
- Create frontend around Unity view to save exercise motion capture data and track recovery

Nokia Bell Labs Murray Hill   **New Providence, New Jersey**

Software Engineering Intern   June 2017 – Aug 2017

- Implemented voice control for Kuboki Turtlebot to pair with facial recognition team's research
- Created a speech recognition application in Visual C# WPF, conducting tests with speech synthesis
- Integrated solution to send SSH parsed motion commands into Linux hosted ROS server
- Produced mobile app in Android Java with Google Speech-To-Text to control Turtlebot system

ADDITIONAL EXPERIENCE

Chimera

React Application   June 2020 – Sept 2020

- Set up a local network of servers and IP security cameras with an emphasis on modularity
- Created a React web app that controls cameras' recording schedule and gives quick access to files
- Produced backend API that generates videos or archives of motion activated image captures

Outsmart Options

React Application   June 2019 – May 2020

- Managed 5-person team through 1-year Lean software lifecycle for web application
- Facilitated top down design with NodeJS/ExpressJS backend and Babel/React frontend
- Produced enhanced data visualization with stock and options chain data from REST API
- Implemented TravisCI running Jest from GitHub continuous deployment to Heroku Cloud Server
- Created algorithmic JavaScript libraries to analyze profit probability of options strategies
- Connected a MongoDB server to allow users to login and save options strategies and watchlists

TECHNICAL SKILLS

Languages: English, Gujarati

Programming Languages

- Most Proficient: JS (NodeJS, ExpressJS, React, React-Native, AngularJS), Python, C# (WPF, Xamarin)
- Proficient: Java, C++, HTML, CSS/Less/SASS, MATLAB, Git, Markdown
- Experience With: Ruby, VBA in Excel, R