JAY PANDYA

jtpandya3@gmail.com
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**: -/4.00

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

- **GPA**: 3.65/4.00, Dean's List 5 Semesters
- **Relevant Coursework**: Object-Oriented Software Engineering, Data Structures, Algorithms, Agile Methods, Software Modeling and Simulation, Software Testing & Quality Assurance

WORK EXPERIENCE

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 SSH send parsed motion commands into Linux hosted ROS server
- Produced mobile version in Android Java with Google speech to text to control Turtlebot system

ADDITIONAL EXPERIENCE

Outsmart Options

React Application June 2019 – Present

- Manage 5-person team of software engineers through Lean software lifecycle for web application
- Facilitate top down design with NodeJS/ExpressJS backend and Babel/React frontend
- Produce enhanced data visualization with stock and options chain data from REST API
- Implement TravisCI running Jest from GitHub continuous deployment to Heroku Cloud Server
- Maintain domains at http://outsmart.options.works/ and http://www.outsmartoptions.live/
- Create algorithmic JavaScript libraries to analyze profit probability of options strategies

.NET WPF Application Sep 2018 – Nov 2018

- Designed and developed calculator on Visual C# WPF for profit of multi-leg options strategies
- Utilized the Black Scholes Model to easily calculate profit for a range of stock prices and dates
- Integrated fast options contract implied volatility calculation with Newton Raphson iteration

CXIA Cryptocurrency Exchange Indicator Analysis

Web Application March 2018 – May 2018

- Collaborated with a 3-person team to design a cryptocurrency technical analysis web app
- Focused on saving data from a REST API onto JSON files in Linux server with daemon shell script
- Developed a NodeJS algorithm to compute price and volume dependent technical indicators

TECHNICAL SKILLS

Programming Languages

- Most Proficient: JS (NodeJS, ExpressJS, React, AngularJS, jQuery), Python, C# (WPF, .NET Core)
- Proficient: Java, C++, HTML, CSS/Less/SASS, MATLAB, Git, Bash
- Experience With: Ruby, mySQL, XML, VBA in Excel, R

Certifications: Bloomberg Market Concepts

Interests: Options Trading, Poker and Music Production