

# JAY PANDYA

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## EDUCATION

### Stevens Institute of Technology

Master of Science in Financial Engineering

Hoboken, New Jersey

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