

# 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:** 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 Contractor

Oct 2020 – Jan 2020

- Build software for use by Department of Defense in rehabilitation of injured Army Rangers
- Develop 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