

# JAY PANDYA

[jtpandya3@gmail.com](mailto:jtpandya3@gmail.com)  
<https://github.com/jjjpanda>  
<https://www.jthepanda.com>

## EDUCATION

### Stevens Institute of Technology

Hoboken, New Jersey

Master of Science in Financial Engineering, Certificate in Algorithmic Trading Strategies Aug 2020 – May 2021

- **GPA:** 3.81/4.00
- **Relevant Coursework:** Stochastic Calculus, Pricing & Hedging, Advanced Derivatives, Portfolio Optimization, Market Microstructure

### Stevens Institute of Technology

Hoboken, New Jersey

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 & Simulation, Software Testing & Quality Assurance

## WORK EXPERIENCE

### Revenite & National Security Innovation Network

Durham, North Carolina

Software Engineering Contractor (Remote)

Oct 2020 – Feb 2021

- Built software for use by Department of Defense in rehabilitation of injured Army Rangers
- Developed for DoD-funded startup creating a physical therapy cross-platform mobile app
- Designed and implemented backend API and MongoDB schema based on client specification
- Created React-Native 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

- Created a web app that controls IP security cameras' recording schedule and manages recorded frames
- Set up a local network of servers and RTSP cameras with an emphasis on modularity and decoupling
- 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 API and Babel/React frontend web app
- Created algorithmic JavaScript libraries to analyze profit probability of options strategies
- Produced enhanced data visualization of option strategies with stock and options chain data from REST API
- Set up continuous integration running Jest from GitHub continuous deployment to Heroku Cloud Server
- Connected API to a MongoDB server to allow users to login and save options strategies and watchlists

## TECHNICAL SKILLS

**Languages:** English, Gujarati

### Programming Languages & Tools:

- Advanced: JavaScript (NodeJS, React, React-Native, AngularJS), Git, MongoDB
- Proficient: C# (WPF, Xamarin), Python, R, Java, HTML, CSS/Less/SASS, Markdown, Linux
- Intermediate: C++, MATLAB, Azure, Junit, Bloomberg Terminal
- Experience With: Ruby, SQL, VBA in Excel, Docker, Google Cloud