

# JAY PANDYA

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## EDUCATION

### Stevens Institute of Technology

**Hoboken, New Jersey**

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

- GPA: 3.87/4.00
- Relevant Coursework: Stochastic Calculus, Pricing & Hedging, Advanced Derivatives, Portfolio Optimization, Market Microstructure, Algorithmic Trading Strategies

### 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, Graduated with High Honor
- Relevant Coursework: Object-Oriented Software Engineering, Data Structures, Algorithms, Agile Methods, Software Modeling & Simulation, Software Testing & Quality Assurance

## WORK EXPERIENCE

### National Security Innovation Network

**Remote**

Software Engineering Contractor

Oct 2020 – Feb 2021

- Built software for use by Department of Defense (DoD) in the rehabilitation of injured Army Rangers.
- Developed for DoD-funded startup (Revenite) creating a physical therapy cross-platform mobile app.
- Designed and implemented Node.js backend API and MongoDB schema based on client specification.
- Created React-Native frontend around Unity view and with MobX to save exercise motion capture data.

### 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 Cloud Speech-To-Text to control Turtlebot system.

## ADDITIONAL EXPERIENCE

### Chimera

React Application

June 2020 – Sept 2020

- Created a React 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.
- Developed Node.js 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 Node.js/ExpressJS backend API and Babel/React frontend web app.
- Created algorithmic JavaScript libraries to analyze profit probability of options strategies.
- Produced 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 (Node.js, 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