

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 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 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 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 (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