

# Austin Steady

[asteady23@gmail.com](mailto:asteady23@gmail.com) • 908-670-5705  
339 Stagecoach Road Millstone, NJ 08510  
[www.austinsteady.com](http://www.austinsteady.com)

## EDUCATION

---

### Rutgers University (Class of 2017) Computer Science Major

- Data Structures, Systems Programming, Computer Architecture, Algorithms, Principles of Programming Languages, Artificial Intelligence, Software Methodology, Databases, Imaging

### Mathematics Major

- Multivariable Calculus, Linear Algebra, Differential Equations, Theory of Probability, Signal Processing, Discrete Models in Biology, Analysis, Graph Theory, Linear Optimization

## WORK EXPERIENCE

---

### Software Engineering Intern at MongoDB (Summer 2016)

- MongoDB is responsible for the eponymous NoSQL database, now the 4th most used database globally
- Worked on library dependency resolution project
- Created data extraction tool for SCons builds
- Created interactive visualization for exploring and fixing dependency graphs
- Created tool to simplify build environments by detecting and resolving dependency issues

### Software Development Intern at Bond (June 2015 - January 2016)

- Bond, based in NYC, uses a fleet of robots to offer mass-produced letters in one's own handwriting
- Researched and developed method for automatically generating handwriting in various styles
- Researched and developed method for automatically converting offline handwriting images to online vectors
- Created API for interfacing the robot camera with the centralized robot handler
- Researched and introduced automatic barcoding system
- Used computer vision to create stabilized timelapses and screenshots for unique, customer-facing visual receipts

### Android Development Intern at Artisan Mobile (Summer 2014)

- Artisan is a mobile analytics company based in Philadelphia.
- Created Javascript API and Javascript-Android bridge enabling the Artisan product to work on non-native apps
- Fixed several bugs in Android codebase
- Experience with agile software development

## PERSONAL PROJECTS

---

Github: [www.github.com/purpleladydragons](https://github.com/purpleladydragons)

Personal Website: [www.austinsteady.com](http://www.austinsteady.com)

### Viola-Jones Face Detection

- Personal python implementation of popular face detection method
- ### Facial Recognition Using Eigenfaces
- Personal python implementation of classic facial recognition method

### Hidden Markov Models

- Implemented and trained model to do text-based language identification

### Computational Neuroscience

- Leaky Integrate and Fire Model, a biologically feasible model, used for image and pattern recognition

### Natural Language Processing

- Naive Bayes Classifier used to classify sentiment of tweets

### Flu Tracking

- Use twitter to visualize the spread of the flu

### Handwriting Prediction

- Neural network used to predict sequence of pen strokes

## SKILLS

---

**Proficient:** Python, Java, Machine Learning, Numpy, OpenCV, Android, Git, Linux

**Other skills:** MongoDB, D3, Javascript, jQuery, Spark, Flask, Node, PostgreSQL, Flask, R, CSS, C, AWS, Theano