

# Swapneel Chalageri

## Permanent Address

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## Contact Information

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**Education** Rutgers University – School of Arts and Sciences  
Expected B.S. in Computer Science

New Brunswick, NJ  
Class of 2018

**Skills** Proficiency with Java, C, Clojure. Experience with R, Python, Javascript

**Experience** **Software Engineering Intern** **Summer 2016**  
**Xaxis Media Company**

- Migrated automated trading bidder's segment storage to a new Aerospike instance in Clojure. Used for re-segmenting user data to allow for faster user matching in primary instance.
- Wrote a ClojureScript web application connected to the PostgreSQL pipeline database containing all bidder transactions. Used by the Ad Operations team to monitor daily movement.
- Designed a web application connected to the bidder to track daily volatility and present information in novel ways using Clojure's Incanter library.

## Software Engineering Intern

**Columbia University Medical School**

**Summer 2015**

- Worked with the engineering team to create a healthcare application, myNYP, to provide all patients electronic access to their medical records.
- Fixed bugs in Java, added features, and made production-level improvements to team's existing codebase.
- Field-tested working application in HIV clinics in the medical campus, collected user experience data, and created sketch mockups on improved implementations. Mockups were A/B tested in the clinics, and the results presented to the engineering team.

**Projects** **Mean Reversion Trading Algorithm (Code available on Github: *manaswap*)**

- Designed and implemented a trading algorithm in Python, back tested using Quantopian's open source API & Python's NumPy libraries.
- Uses a well known strategy known as *Mean Reversion*, that identifies if a stock price is increasing over a past period, it will decline over a future period, reverting to the mean.

## WeatherSlack (Code available on Github)

- Built a Node.JS SlackBot that delivers weather information given a zip code inside of Slack. Sits on an express server, that handles Get requests from Slack, and does a Get request to OpenWeatherAPI.

## CookItForkIt (HackBCA)

- Built an online cookbook repository with the twist of being similar to Git. Users can submit their own modifications on stock recipes, which will all be stored in the commit history.
- Created the backend of the application handling requests and adding them to the repository.

**Leadership** President of Student Society for Stem Cell Research.

References: Available upon request.