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Live GitHub

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BrainSTAX (Rails, React.js/Flux, PostgreSQL) A flashcard study app integrating a custom-built spaced-repetition algorithm. • DRYs code with concise views, partials, and mixins. • Implements modified Leitner SRS algorithm to dynamically re-sequence cards. • Optimizes runtime queries to reduce load time. **Coffee Snake** (JavaScript, iQuery, CSS) Live GitHub A browser-based classic Snake game with a 21st century twist. • Maximizes principles of DRY object-oriented design. • Built upon own DOM Manipulation library called Orb. GitHub Orb (Ruby, SQL) A Ruby ORM inspired by ActiveRecord of Ruby on Rails. • Leverages Ruby's extensive metaprogramming and SQL to simplify database queries. • Infers table names by default when making associations between classes. **SKILLS** AJAX Ruby Rails **JavaScript iQuery** React.js Flux SQL Git HTML5 CSS RSpec TDD AWS ELMHURST HOSPITAL CENTER | QUEENS, NY **EXPERIENCE** 2010 - 2011 2012 - 2013 Volunteer BIO-MEDICAL ENGINEERING DEPARTMENT. • Repaired hundreds of hospital equipment and medical devices. • Managed hospital equipment database to facilitate tracking and organization of hospital equipment. Research-DEPARTMENT OF CHEMISTRY, CSI | STATEN ISLAND, NY 2013 - 2015 Assistant • Co-authored 2 peer-reviewed journal articles in renowned chemistry journals. • Optimized antimicrobial activity of polymers against E. coli and S. Aureus. 2012 - 2013 MACAULAY HONORS COLLEGE, CSI | STATEN ISLAND, NY Tutor • Tutored Calculus, Organic Chem., Physics & Chinese to dozens of students. **PUBLICATIONS** Effect of Relative Arrangement of Cationic and Lipophilic Moieties on Hemolytic

EDUCATION

PROJECTS

APP ACADEMY | NEW YORK, NY

2015

2015

2014

Rigorous full-stack software engineering curriculum with < 3% acceptance rate.

International Journal of Molecular Sciences. Punia A., He E., Lee K., & Yang N.L. Cationic amphiphilic non-hemolytic polyacrylates with superior antibacterial

Chemical Communications. Punia A., He E., Lee K., Banerjee P., & Yang N.L.

• Emphasis algorithms, TDD, pair-programming, and efficient design.

and Antibacterial Activities of PEGylated Polyacrylates.

THE MACAULAY HONORS COLLEGE | NEW YORK, NY 2011 - 2015 • Bachelors of Science [B.S.] in Chemistry & Biochemistry | Minor: Chinese 2015

• Course Highlights: Calculus (I, II, & III), Analytical Chemistry, Thermodynamics,

Polymer Engineering, Quantum Mechanics, Probability & Statistics,

• GPA: 3.87

activity.

Awards

Department of Bio-Chemistry Distinguished Student Award recipient Department of Chemistry Distinguished Student Award recipient

STEAM Scholarship recepient

2015