

JOSEPH GENE BADLATO

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TECHNICAL SKILLS

JavaScript, Python, C/C++
Node.js, Express.js
HTML/CSS
Heroku
SQL
MATLAB
Git, Windows PowerShell

COURSEWORK

Linear Algebra
Number Theory
Numerical Analysis
Honors Principles of Economics
Honors Physical Chemistry
Bioorganic Chemistry

EDUCATION

B.S. in Mathematics & B.S. in Chemistry, May 2017

Cum Laude, Honors Scholar

Virginia Polytechnic Institute and State University (Virginia Tech)

Overall GPA: 3.567 Mathematics GPA: 3.610 Chemistry GPA: 3.552

Dean's List with Distinction, 2013 – 2014 | Dean's List, Spring 2015, Fall 2016, Spring 2017

PROJECTS

OChem Buddy, ochembuddy.herokuapp.com

An organic chemistry teaching aid that names organic molecules drawn by the user. Graph theory intensive algorithms, such as finding the longest path in a graph that does not repeat nodes. Built with only JavaScript, HTML, and CSS.

RunnersDB, runnersdb.herokuapp.com

A platform where runners around the world can share their local running routes. Designed similar to a web forum. Built with Google Maps API, Node.js, Express.js, and PostgreSQL.

Markov Sports Rankings, markov-rankings.herokuapp.com

A website that ranks sports teams in a variety of leagues, updating every day. Rankings are generated through an algorithm implementing Markov chains to take into account strength of schedule. Built with Bootstrap, PostgreSQL, and Cron.

EXPERIENCE

Undergraduate Researcher, Virginia Tech Chemistry Department, January 2015 – August 2015

Performed experiments under the direction of Dr. Felicia Etzkorn to synthesize a peptide chain as a potential anti-cancer drug delivery mechanism.

Selected for the Chemistry Department's Summer Undergraduate Research Scholarship to continue research through the summer for 30 hr/wk.

Organic Chemistry Teaching Assistant, January 2017—May 2017

Responsible for holding office hours & review sessions, as well as grading tests & homework.

Mathematics Department Grader, January 2017—May 2017

Responsible for grading multivariable calculus papers.

Chemistry & Mathematics Tutor, Yup Online, June 2016 – present

Assist students of all ages with courserwork through the AP Chemistry & Calculus curricula.

HONORS & AWARDS

Virginia Tech Merit Scholarships

John William May '42 Endowed Scholarship, Department of Chemistry, 2016 – 2017

Julius P. Bilisoly Chemistry Scholarship, Department of Chemistry, 2015 – 2016

R. H. Bogle Scholarship, Department of Chemical Engineering, 2015 – 2016

Charles W. and Mildred W. Carter Scholarship, College of Engineering, 2015 – 2016

Donald and Madeline Stewart Scholarship, College of Engineering, 2015 – 2016

Summer Undergraduate Research Scholarship, Department of Chemistry, 2015

Worked under the direction of Dr. Felicia Etzkorn in chemistry/biochemistry.

ORGANIZATIONS

Alpha Tau Omega, Leadership Development Fraternity, September 2015 – May 2017

Historian, Member of the Executive Board, September 2016—March 2017

Public Relations Officer, January 2016—December 2016

Member of Philanthropy & Public Relations Committees.

VT Hacks Hackathon, April 2014

Worked over a period of 36 hours in a team to develop a game for Android devices.