KEVIN ALEXANDER JIA

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EDUCATION

The University of Texas at Austin, College of Natural Sciences – Austin, Texas May 2021

*Bachelor of Science in **Computational Biology**, Minor in **Computer Science***

SKILLS

Programming Languages: Python, Swift, Java, JavaScript, R
Data Layer: PostgreSQL, MySQL, SQLAlchemy
Web: Bootstrap, CSS 3, Flask, HTML 5
Tools & IDEs: Pycharm, XCode, VS Code
Cloud: Google Cloud Platform
CI/CD: GitHub, GitLab, GCP Cloud Source
Computational Biology Tools: PyMOL molecular modelling software

PROJECTS

iOS APP – *Adventurer Game* March 2020 – April 2020

- Created an alpha version of a Single View iOS game where users create adventurers and send them on quests in order to "level up."
- Application features three view controllers, "adventurers", "add adventurer," and "quest."
- Application features a CoreData Entity that models adventurer data, including name, profession, level, portrait, total hitpoints, current hitpoints, and attack modifier.

IDB1/IDB2 – *Animal Classification & Search Web Application* June 2019 – July 2019

- Created a web app hosted on Google Cloud Platform (GCP) that emulated the services provided by IMDB, and classifies and allows the searching of many of the animals found in the animal kingdom.
- GUI was implemented using Bootstrap, frontend was implemented using JavaScript, backend was implemented using Python and Flask
- Collaborated using GitLab and gained invaluable experience in the fundamentals of large-scale programming and app deployment

RESEARCH

Vertebrate Interactome Mapping (Gene Networks) - *Undergraduate Researcher*; Austin, TX Jan 2018 – Dec 2018

- Studied proteins that have been implicated in RNA processing and metabolism and investigated the functions and interactions of novel proteins to map the interactome of the nucleus
- Used PyMOL modeling software to predict areas and patterns of protein interactions and study the role of specific proteins in RNA processing and gene expression
- Investigated the RNA-binding motif protein 17 (RBM17 gene) and its product protein (SPF45): where they are found in splicing, what they bind to, and their specific functions
- Investigate the consequences of the I316F mutation for the RNA-binding motif protein 10 (RBM 10)

LEADERSHIP EXPERIENCE

Alpha Phi Omega – Alpha Rho Chapter – *Various Positions* Spring 2018 – Present

Community Projects Committee

- Organized and planned community service projects both on campus and around the greater Austin area for Alpha Phi Omega members totaling over 10,000 hours of community service completed by the chapter each semester

Fellowship Committee

- Organized and planned various social events for Alpha Phi Omega members including retreats and formals

Recruitment Committee

- Organized events such as tabling, social mixers and information sessions to help prospective Alpha Phi Omega members learn more about the organization and to recruit new members

ADDITIONAL INFORMATION

Lab Research Skills: Agarose Gel Electrophoresis, DNA Purification, Mutagenesis, N-terminal Flag tagging, PCR, Plasmid Purification, Recombineering, RT PCR, Transformation
Core Coursework: Elements of Computers and Programming, Elements of Software Design, Elements of Software Engineering, Elements of Mobile Computing, Genetics, Genetics Lab, Biostatistics, Evolution, Neural Systems I, Calculus, Probability, Matrices and Matrix Calculations