Derek Jow

Stanford University Master Student

Biomedical Informatics graduate student seeking full time employment while studying at Stanford University to contribute to the development of company products and services. Cooperative, detail-oriented, and diligent. Skilled with time management in maximizing work and study productivity while balancing extracurricular activities. Excellent verbal and written communication skills with an exceptional work ethic.

Education

Stanford University   **September 2019 - Present**
- Pursuing **Master of Science** degree in Biomedical Informatics

University of California, San Diego   **September 2015 - June 2019**
- **Magna Cum Laude;** B.S. degree in Computer Science

Work Experience

Software Engineering Tutor, UC San Diego   **January 2019 - March 2019**
- Reviewed and tested GCP software design projects for quality assurance
- Supervised lab hours to assist students in software engineering
- Graded projects on time to maintain steady course logistics

Intern, The Scripps Research Institute (TSRI)   **August 2017 - March 2019**
- Implemented reciprocal best match algorithm to compute Chlamydia orthologs
- Imported manually curated gene-protein data using Wikidata bots
- Developed advanced querying and gene expression widgets displaying Chlamydial knowledge from Wikidata, NCBI, Expasy, Ensemble, and Excel
- Modularized wikigenomes.org to produce dynamically generated model organism databases, like chlambase.org and myxobase.org

Software Developer Intern, Pinn   **June 2015 - September 2015**
- Designed an interface for customer flow process from login to transaction
- Implemented a Java BluetoothGatt client for transmitting data wirelessly

Barista, MO Tea dba Comebuy   **Aug 2014 - Sept 2015; Summer 2016**
- Brewed specialty drinks like sri lanka uva, pu'er, oolong and jasmine tea.

Publications

Putman, Tim et al. "ChlamBase: a curated model organism database for the Chlamydia research community." *Database : the journal of biological databases and curation* vol. 2019 (2019): baz041. doi:10.1093/database/baz041

Projects

Developing 2D RPG game **JavaJesus** during summers from high school to present
- Designed and implemented a custom level editor using native JSwing
- Created a quest editor and visualization tool using GraphStream API

Contact

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Email
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Github
http://www.github.com/djow2019

Portfolio Project
https://djow-portfolio.firebaseapp.com/

Computer Skills

Skill	Rating
Java	★★★★☆
Git	★★★★☆
HTML	★★★☆☆
Javascript	★★★☆☆
CSS	★★★☆☆
GCP	★★★☆☆
Android	★★★☆☆
Python	★★★☆☆

Other Software Tools

Microsoft Office, Photoshop, Vim, Zenhub, Matlab, Bash, Valgrind, R

Software Design Patterns

Strategy, Adapter, Observer, MVC, Decorator, Factory, Builder

Dr. Andrew Su, PI, TSRI
(858) 784-2079

Dr. Mary Boyle, Cog Sci Professor, UCSD
(760)-390-2989

Bill Griswold, CSE 110 Professor, UCSD
(858)-204-8189