WOO SEOK JUNG

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EDUCATION

University of Puget Sound, Tacoma, WA   *August 2016 – May 2020*

B.S. in Mathematics & Computer Science

GPA: 3.79

Relevant courses: Mathematical Statistics, Advanced Applied Statistics, Probability Theory, Mathematical Modeling, Optimization, Algorithms and Data Structures, Software Engineering, Operating Systems, Database Management Systems

DIS (study abroad), Copenhagen, Denmark   *Fall 2019*

Relevant courses: Artificial Neural Networks and Deep Learning, Artificial Intelligence, Computational Analysis of Big Data

RESEARCH EXPERIENCE

McCormick Summer Research Scholar   Summer 2019

University of Puget Sound   *Tacoma, WA*

"Generating Artificial Mouse Ultrasonic Vocalizations using Generative Adversarial Networks"

- Applied a complex Morlet wavelet transform to raw mouse vocalization recordings to produce visual representations in the form of scalograms.

- Took and downscaled 1-second slices of visible mouse calls.

- Implemented a generative adversarial network model trained using NVIDIA's progressive training methodology and produced promising results for 16×32 and 32×64 resolution scalogram slices.

- Assisted professors as a TA, grader, and afternoon tutor for Introduction to Computer Science, Data Structures, and Architectures courses.

WORK EXPERIENCE

Computer Science Assistant   2018 – 2019

University of Puget Sound   *Tacoma, WA*

- Assisted professors as a TA, grader, and afternoon tutor for Introduction to Computer Science, Data Structures, and Architectures courses.

Mathematics Assistant   2017 – 2019

University of Puget Sound   *Tacoma, WA*

- Assisted professors as a grader for Introduction to Applied Statistics and Calculus I & II courses.

- Worked as an afternoon tutor for Linear Algebra, Multivariate Calculus, and Applied Statistics courses.

IT Intern   June – August 2018

First Choice Bancorp   *Cerritos, CA*

- Designed and programmed scripts for Windows AD group policies as part of merger and acquisition process.

- Assisted in migrating mail servers and transitioning mobile device management platforms for over 300 users and user groups as part of the m&a.

Research and Development Intern May – July 2015
NOVAtime Technology Inc. *Diamond Bar, CA*

- · Developed a JavaScript visualization of a time clock for a simpler hierarchical overview.
- · Researched and developed Korean language localization for the time clock interface.
- · Presented the projects before the company's Board of Directors and Executives.

PROJECTS

Loggregate Fall 2018
github.com/wsjung/loggregate *Scrum master, DBA*

- · Led a team of four in developing a study group management platform implemented using the Laravel PHP web framework.
- · Defined a BCNF optimized SQLite database schema and populated it using a Python script which collected course information from the web

Quantitative Investment Analysis Fall 2018
github.com/wsjung/cs240 *Data collector, DBA*

- · Scraped stock and Twitter data from the web using Python's BeautifulSoup package.
- · Designed a script to automatically collect daily stock and Twitter data using cron
- · Stored collected data in a BCNF optimized MySQL database.

EXTRACURRICULAR UNIVERSITY SERVICE

Chair, *University of Puget Sound ACM Student Chapter* 2017 – 2019
Secretary, *University of Puget Sound Mathematics Club* 2017 – 2018
Webmaster, *University of Puget Sound ACM Student Chapter* 2016 – 2017

AWARDS AND HONORS

McCormick Scholar Award 2019
Dean's List Spring 2019, Fall 2018, Fall 2017

SKILLS

Computer Languages Java, Python, R, C, MATLAB, JavaScript, PHP
Libraries TensorFlow, PyTorch, Git, Flask, Laravel, Nodejs
Databases MySQL, SQLite

AFFILIATIONS

Association for Computing Machinery
Upsilon Pi Epsilon Honor Society

REFERENCES

Available on request