Thanasi Bakis

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Graduate student seeking an educational experience with machine learning in the industry.

Education

University of California, Irvine   *Irvine, CA*
M.S. Statistics   *2020 - 22*

University of California, Irvine   *Irvine, CA*
B.S. Data Science, Summa Cum Laude (GPA: 3.9)   *2017 - 20*
- **Bayesian Statistics** in R
- **Computational Photography** in Python
- **Data Structures** in C++
- **Database Design** in SQL
- **Deep Learning** in Python
- **Generalized Linear Modeling I-III** in R
- **Machine Learning** in Python
- **Probability and Mathematical Statistics I-III**

Technical Experience

MUGIC Motion   *Irvine, CA*
Research Assistant   *Jan 2020 - Sep 2020*
- Implemented an algorithm attempting to track the position of an accelerometer in real time, filtering and integrating noisy data in batches.
- Leveraged principal component analysis and dimensional projection to communicate the data in the context of a musician wearing the sensor with their violin.

Cognition and Individual Differences Lab, UC Irvine   *Irvine, CA*
Research Assistant   *Jun 2019 - Aug 2019*
- Performed feature engineering on several gigabytes of time series EEG data.
- Maintained an efficient runtime with parallel computation on a remote server.
- Constructed linear models to examine relationships with the EEG peaks.

Department of Computer Science, UC Irvine   *Irvine, CA*
Reader   *Oct 2018 - Jun 2020*
- Graded homeworks for up to 700 discrete math students, giving feedback throughout.
- Thoroughly proofread and graded exams to ensure correctness.

iD Tech Camps   *Pomona, CA*
Instructor   *Jul 2018 - Aug 2018*
- Instructed classes teaching basic cryptography, Python, and Java app development.
- Designed lesson plans accessible to middle and high school students.

So Cal Cybersecurity Community College Consortium   *Irvine, CA*
Mentor   *Dec 2017 - Jun 2019*
- Led workshops about Linux server operation and hardening.
- Designed lesson plans accessible to middle and high school teams.

Cyber Security Program, Troy High School   *Fullerton, CA*
Linux Instructor and Team Captain   *Oct 2015 - May 2017*
- Developed a comprehensive Linux hardening curriculum from which I taught my high school's cybersecurity program of over 100 students.
- Created virtual machine images with security vulnerabilities for student practice alongside lessons.

Non-Technical Experience

Housing Administrative Services, UC Irvine   *Irvine, CA*
Student Housing Advisor   *Jun 2019 - Aug 2020*
- Led engaging and informative housing tours to newly admitted families.
- Delivered concise and accurate information to walk-in and phone clients.

Resident Housing Association, UC Irvine

PRESIDENT

Irvine, CA

Aug 2018 - Jun 2019

- Developed action committees to advocate for the needs of 6,000 residents.
- Created agendas and ran efficient weekly meetings for a fifteen-member board.
- Represented the University at regional conferences with fifty schools in attendance.

Middle Earth Community Council, UC Irvine

PRESIDENT

Irvine, CA

Aug 2017 - Jun 2018

- Programmed community events to address the needs of 1,800 residents.
- Coordinated with a team of five to deliver events weekly without sacrificing quality.
- Created a spreadsheet to analyze event attendance with respect to topic and time.

GitHub Highlights

data2sound

SONIFICATION OF TIME SERIES DATA TO THE MIDI FORMAT

2020

Undergraduate Data Science Capstone

DOES THE NEWS SWAY PUBLIC MUSIC TASTE?

2020

Resume Builder

A DATA-DRIVEN TOOL TO BUILD THIS RESUME

2020

Score Modeler

VISUALIZING GRADE DISTRIBUTIONS UNDER NORMAL AND BETA DISTRIBUTION ASSUMPTIONS

2019

Achievements

CyberPatriot National Finals - Cyber Security Competition

9TH PLACE TEAM, OF 2200

Apr 2017

Cal State LA ProgFest - Java Competition

1ST PLACE TEAM, OF 20

Feb 2017

OC Register Artist of the Year

SEMIFINALIST FOR ALTO SAXOPHONE

Feb 2017

California Congressional App Challenge - Android Development Competition

3RD PLACE TEAM

Feb 2016

Lockheed Martin Code Quest - Java Competition

1ST PLACE TEAM (TWICE), 3RD PLACE TEAM, OF 20

Apr 2015 - Apr 2017