Thanasi Bakis

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Graduate student seeking an educational experience with machine learning and computer vision 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.

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 *Irvine, CA*

President *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 *Irvine, CA*

President *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*

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*