

David Li

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SUMMARY

I'm a senior graduating from the University of Maryland, College Park in December 2018 with a B.S. in Computer Science and Mathematics (Statistics).

EDUCATION

University of Maryland Sep. 2015 - Dec. 2018
Bachelor of Science Expected Dec. 2018
Majors: Computer Science, Mathematics (Statistics Track)
Cumulative GPA: 3.97, Major GPA: 4.0

EXPERIENCE

UMD Graphics and Visual Informatics Laboratory May 2018 - Dec. 2018
Undergraduate Research Assistant

- Co-developed Geollery, a mixed reality social media platform incorporating real time user interaction with persistent social media.
- Developed real-time 3D reconstruction pipelines with two levels of details from Google Street View, OpenStreetMaps, and Google Maps.
- Incorporated Twitter and Yelp APIs to visualize geotagged social media.
- Wrote JavaScript, MySQL, and PHP code using libraries three.js for 3D development and Ratchet for PHP WebSockets

UMD Department of Mathematics Sep. 2017 - Dec. 2017
Grader for MATH410 Advanced Calculus I

- Assessed and provided feedback on mathematical proofs from homeworks and quizzes.

UMD First-Year Innovation & Research Experience Jan. 2017 - May 2017
Academic Peer Mentor for FIRE170 Phillips Virtual Culture

- Mentored FIRE students

UMD First-Year Innovation & Research Experience Jan. 2016 - Dec. 2016
FIRE Student and Summer Fellow in Sustainability Analytics

- Analyzed FAO and IUCN Red List data sets using R and summarized research insights.
- Used the rvest package to automate data collection from sources without public APIs.
- Collaborated in drafting a formal abstract and paper documenting our original research.

COURSE PROJECTS

Machine Learning 1: Implemented and evaluated the performance of decision trees, k-nearest neighbors, perceptron, PCA, and a 2-layer fully-connected neural network on datasets such as MNIST in Python.

MeeshQuest: Designed a hierarchical navigation back-end using variations of AVL binary tree and PM Quadtree data structures in Java.

TECHNICAL SKILLS

Programming Languages: C, Java, Ruby
Statistical Analysis: R, SAS
Web Development: JavaScript, PHP, MySQL