Darius **Irani**

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Education

Johns Hopkins University — *Baltimore, MD*

M.S.E. in Computer Science — *Expected December 2020*

- **Coursework:** Natural Language Processing, Chatbots & Dialog Systems, Information Retrieval, Vision as Bayesian Inference, Deep Learning

Johns Hopkins University — *Baltimore, MD*

B.S. in Computer Science and B.S. in Applied Mathematics & Statistics — *December 2019*

- **Coursework:** Social Policy, Probabilistic Graphical Models, Machine Learning, Computer Vision, Statistics, Algorithms, Time Series Analysis
- **Cumulative GPA:** 3.63
- **Extra Curriculars:** DSAGA (Diverse Sexuality & Gender Alliance), Community School Initiative, oSTEM (Out in STEM)
- **Honors:** Dean's List, Upsilon Pi Epsilon Member
- **Teaching Assistant:** Machine Learning, Algorithms, Data Structures

Skills

Python, Java, C/C++, JavaScript, React/Redux, GraphQL, SQL, Git, PyTorch, OpenCV, R, LaTeX, HTML, PHP, Tableau

Work Experience

Amazon — *Seattle, WA*

Software Development Engineering Intern — *May 2019 - August 2019*

- Worked on platform used by vendor managers to control sourcing of goods in Fulfillment Centers for Amazon Fresh and PrimeNow
- Streamlined merchant on-boarding process from 5 disconnected steps to 1 seamless step, reducing overall time from 55 days to 1
- Added user input fields to React front-end portal and created feature in Java back-end API that is invoked to synchronize these fields using AWS Step and Lambda functions. Modified GraphQL queries to fetch and display data from synchronized external storage service.
- Delivered user stories in 2 week sprints and tracked process using daily scrums within Agile framework

Johns Hopkins University, Clinical Data Science — *Baltimore, MD*

Research Assistant — *March 2019 - Present*

- Isolated error-prone signals from MIMIC-III critical care database and produced cleaned signal dataframe for publication using Python
- Developed pipeline to merge signals from matching ICU stays and remove overlap ambiguity with rules defined using clinical domain expertise

University of Washington, eScience Institute, Data Science for Social Good — *Seattle, WA*

Data Science for Social Good Student Fellow — *June 2018 - August 2018*

- Designed interactive mobility index for Seattle Department of Transportation to make strategic policy decisions and generated interactive visualization dashboards with GeoPandas and Tableau
- Developed geocoder module that integrated disparate datasets based on common attributes and computed normalized scores for transportation mode availability, affordability, and reliability

Leadership

TCO Team — *Baltimore, MD*

President — *September 2017 - Present*

- Organized events for students interested in entrepreneurship on campus, including a social entrepreneurship panel and Square One, a startup and innovation showcase attended by over 120 people
- Mentored student entrepreneurs through ideation, feasibility analysis, market research, and incorporation processes

Conferences and Hackathons

West Big Data Innovation Hub All Hands Meeting — *Boise, ID*

Poster for Seattle Mobility Index — *September 2018*

IDIES Machine Learning Visualization Hackathon — *Baltimore, MD*

First place — *January 2019*

- Developed interactive geospatial visualizations of Baltimore's 911 calls to determine biases in data over time

HopHacks Data Science Challenge — *Baltimore, MD*

Fourth place — *February 2018*

- Utilized ResNet50 convolution network with PyTorch for unsupervised image classification