Adith Balamurugan

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EDUCATION

U.C. BERKELEY

M.S. IN ELECTRICAL ENGINEERING & COMPUTER SCIENCE

Signal Processing & Computer Vision Expected May 2019 | Berkeley, CA Cum. GPA: 4.0 / 4.0

BACHELORS IN COMPUTER SCIENCE BACHELORS IN STATISTICS

Conferred May 2018 | Berkeley, CA Quantedge Award for Academic Excellence, 2016-17 Kraft Award for Freshmen, 2015-16 Dean's List Cum. GPA: 3.861 / 4.0

TEXAS ACADEMY OF MATH AND SCIENCE (TAMS)

(UNIVERSITY OF NORTH TEXAS) Grad. May 2015 | Denton, TX Summer Research Scholarship National Merit Finalist President's List Cum. GPA: 4.0 / 4.0

COURSEWORK

UNDERGRADUATE

Real Analysis Data Structures Machine Structures Discrete Math & Probability Theory Artificial Intelligence Efficient Algorithms Database Management Machine Learning Combinatorics & Randomized Algorithms Operating Systems

GRADUATE

Game Theory

Time Series

Optimization Models Deep Reinforcement Learning Virtual Reality & Immersive Computing

SKILLS

PROGRAMMING

HTML • CSS • JS

Frequent Use: Python • Java • Git • ATEX • Unix • R Tensorflow • C++ Proficient: C • C# • SQL/Databases • Node

EXPERIENCE

VISA INC. | DATA SCIENCE INTERN | NEXT-GEN OPERATION PRODUCTS

June 2018 - August 2018 | Foster City, CA

- Automated and generalized feature engineering part of ML pipeline with automatic feature selection and model evaluation
- Created and evaluated functions to glean categorical and temporal pattern/insights from "performance monitoring" time series data, collected from 3.3+ billion cardholders and thousands of clients

JCPENNEY | DIGITAL ANALYST + BIG DATA INTERN

June 2016 - August 2016 | Plano, TX

- Worked with Big Data Scrum team on Market Basket Analysis for the ".com" channel using analytic tools such as Datameer
- Analysis on Customer Order trends to power more intelligent product suggestions and recommendations

UNIVERSITY / RESEARCH

IMAGE AND VIDEO PROCESSING LAB | RESEARCH ASSISTANT

April 2017 - Present | Berkeley, CA

Research with Dr. Avideh Zakhor focused in image processing. Collaboration with researchers in UIUC and Cornell. One-Shot and Few-Shot Learning Development

- Determine width/height of certain crops from provided images and distances
- Building and improving an RCNN for object recognition in images.
- Achieve high object classification accuracy with limited training size

DATA 8 | TEACHING ASSISTANT

August 2017 - May 2018 | Berkeley, CA

Responsibilities include course development, running lab/discussion section, and holding office hours.

STATISTICS 88 | Head Teaching Assistant

August 2016 - December 2016 | Berkeley, CA

Worked with Professor Alexander D'Amour. Responsibilities included holding office hours, editing course text, and writing and grading assignments and guizzes.

3D TELE-IMMERSION LAB | RESEARCH ASSISTANT

May 2014 - August 2014 | Richardson, TX (University of Texas, Dallas) Researched with Dr. Balakrishnan Prabhakaran. Worked with Microsoft Kinect and Visual Studio, using C++ and C# programming with Unity. Explored the areas for improvement in remote medical practice using skeleton and mesh interactions in virtual space.

PRO JECTS

SIGNNET | END-TO-END ASL TO TEXT TRANSLATION

INFO 259 - NLP | August 2018 - December 2018 | Berkeley, CA Leverages Tensorflow and Keras to handle video data of speaker performing American Sign Language and encodes the 5 key components of ASL signs to output highest likelihood text translation for given sequence

ALLPAY | Secure Client-side Payment Gateway | Finalist

Money 20/20 Hackathon | October 2015 | Las Vegas, NV Payment gateway using Vantiv API which works alongside shopping systems and accepts any mobile wallet.