

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

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
Game Theory
Time Series

GRADUATE

Optimization Models
Deep Reinforcement Learning
Virtual Reality & Immersive Computing

SKILLS

PROGRAMMING

Frequent Use:

Python • Java • Git • \LaTeX • Unix • R
Tensorflow • C++

Proficient:

C • C# • SQL/Databases • Node
HTML • CSS • JS

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. Explore AR applications in mapping indoor spaces

- Developing algorithms to determine height of certain crops from provided images and distance specifications
- Building and improving an RCNN for object recognition in images.
- Processing point clouds into meshes to perform feature extraction

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 quizzes.

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.

PROJECTS

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.

SPEEDUP | HAPTIC FEEDBACK FOR APPOINTMENT KEEPING | FINALIST

CalHacks 2.0 | October 2015 | Berkeley, CA

Haptic feedback in shoe if running late to appointment and are travelling by foot. The frequency of feedback is inversely related to tardiness.