Adith Balamurugan

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EDUCATION

U.C. BERKELEY
Bachelors in Computer Science
Bachelors in Statistics
Expected May 2018 | Berkeley, CA
Kraft Award for Freshmen 2015-16
Dean's List
Cum. GPA: 3.91

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

LINKS

Github:// **addit112**
LinkedIn:// **abalamurugan**

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

SKILLS

PROGRAMMING
Frequent Use:
Python • Java • Git • LaTeX • Unix • R
Proficient:
C • C++ • C# • SQL/Databases
Tensorflow • HTML • CSS • JS

LITERATURE

THEORY MEETS DATA
Co-Author | 2015-16
Statistics 88 Course Textbook | A Data Scientist's Handbook to Statistics

EXPERIENCE

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

TRULYMAD INC. | Data Entry + Analyst Intern
September 2015 – December 2015 | Berkeley, CA
- Uploading new products pages
- Research prior sales to determine optimal merchandise pricing and inventory for upcoming seasons.
- Assisted in Web Development and UI design.

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 – Present | 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.