Karan Samel

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OBJECTIVE

Developing predictive and autonomous solutions using machine learning modeling and statistical analysis.

EDUCATION

Purdue University, West Lafayette, IN

Bachelor of Science in Computer Science (Honors) and in Applied Statistics. *August 2014 - May 2017*
Graduating in 3 years. Current GPA: 3.95

Amador Valley High School, Pleasanton, CA *August 2010 - June 2014*

TECHNICAL SKILLS: Proficient in C/C++, Java, Python, R, Linux/UNIX systems. Experience with Objective-C, and Javascript.

ACTIVITIES AND LEADERSHIP

Neural Network Prediction for Real Time Bidding: NSF REU Fellow *July 2015 – present*

- Worked on an online advertisement dataset that included multiple features describing a user and indicating if the user clicked a certain advertisement.
- Tested various machine learning and deep learning techniques to achieve high prediction scores using a hybrid neural network and factorization machine model.
- Utilized an external GPU setup to run certain models 80 times faster.
- Publishing results to Journal of Purdue Undergraduate Research.

Purdue Aerial Robotics IEEE: Software Co-Lead *August 2014 – present*

- Building a plane that flies autnomously to follow waypoints, performs search patterns, and carries a small artificial payload to drop.
- Developed a communication protocol to send telemetry data and receive objectives from a remote server.

ACE Coding: Lead Teacher, Curricula Developer *August 2013 – present*

- Taught middle school students "scratch", which is a visual programming tool, Java, and C++.
- Developing new curricula to expand lessons to other programming languages and skills.

iOS Application Developer *March 2013 – August 2015*

- Created a mathemathics application called "My Pocket Solver", which is an equation solver and can determine common statistical values given a data set.

Amador Valley High School Robotics Club (AVBotz): Software Lead *August 2010 – July 2014*

- Developed an autonomous submarine that could navigate through and manipulate obstacles in an underwater course at RoboSub. Received 6th place out of 30 college teams at Robosub 2013.