

Sheethal Mathew

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GitHub: github.com/SheethalSM

AngelList: angel.co/sheethal-mathew

TECHNICAL SKILLS

- **Proficient:** Java, Perl Script, MySQL, Linux, Git
- **Exposure:** C++, Python, Swift, XCode, Android Marshmallow, Kibana/ElasticSearch, YOLO (DeepLearning)

PROFESSIONAL EXPERIENCE

Synopsys | Software Engineer, Intern | Mountain View,CA

Feb 2018 - Sep 2018

- Extracted nightly build test data from MySQL database, populating website with clustered results of ~1 million data points using CGI and Perl scripting.
- Expanded test tracking system from 1 product to 4 sub products utilizing MySQL, extraction queries and Perl.
- Injected fault tests compilation system and detected errors during ZO1X product integration.
- Displayed errors where tests were causing spurious results which were colliding with existing system tests during integration process utilizing Python and Linux.
- Executed subset of 100 test buckets using Linux commands to ensure smooth run on integration.
- Visualized predetermined data collected using Perl scripts and Kibana.

San Jose State University | Project Manager | San Jose,CA

Jul 2017 - Aug 2017

- Managed team of international students on IoT project incorporating Silicon Valley industry standards., winning 3rd place in competition.
- Mentored team in proposing business solution that is compatible in both China and USA.

EDUCATION

B.S. Software Engineering, *San Jose State University*

2017

A.S. Mathematics, *Bakersfield College*

2014

PROJECT WORK

Dimension Detector | Lead Software Engineer | Deep Learning

Jan 2017 - Dec 2017

System for finding the heights of buildings in San Jose for network tower installation.

- Trained and recognized objects from images crawled from image-net using deep learning techniques and YOLO, DARKNET framework, and OpenCV in Java to detect dimensions of buildings.
- Proposed algorithm plan to estimate detection accuracy using recognized object sizes to pixel ratio.
- Revised and solved software to elucidate problem of finding optimal network tower location utilizing Java and OpenCV; algorithm had 92% success rate for buildings under 10 stories.

Object Oriented GUI Programming | Software Engineer

Jan2015-April 2015

Efficient front end applications using MVC architecture.

- Developed efficient front end application such as Mancala board game using Java GUI Swing components such as Decorator and Iterator Patterns.

Mobile Programming (Android and Swift) | Software Engineer

Sept 2016 - Dec 2016

Mobile applications in both iOS Swift and Android while incorporating modern HCI principles

- Built user friendly and aesthetically pleasing scientific calculator app for iOS devices following HCI principles using Swift and XCode.
- Developed survey app with good searchability feature using Android Marshmallow Developer Library.

LEADERSHIP + AWARDS

SWE - Society of Women Engineers President, *Bakersfield College*

2012 - 2014

MESA, Member, *Bakersfield College*

2012 - 2017

Math Club President, *Bakersfield College*

2012 - 2013

Middle Class Scholarship, *San Jose State University*

2015 - 2017

Norman Levan Scholarship, *Bakersfield College*

2013

Dean's List, *Bakersfield College*

2012