# MINA KHAN

Software Engineer, Google
B.A. in Math, Physics & Computer Science

http://khanmina.com/

minakhan01@gmail.com
650-669-7041

**3** Publications  **6** Research Projects  **12** Courses Taught  **24** Awards

## PUBLICATIONS

**CELDA 2015**

TagAlong: Informal Learning from a Remote Companion with Mobile Perspective Sharing

**CHI 2015**

Enabling Human Micro-Presence through Small-Screen Head-Up Display Devices

**Journal of Applied Physics 2014**

A multi-level single-bit data storage device

## RESEARCH PROJECTS

**1**

JUST-IN-TIME INFORMATION & MICROPRESENCE USING GOOGLE GLASS

MIT Media Lab Fluid Interfaces group
August 2014 to May 2015

GRÖBNER BASES FOR POLYNOMIAL SYSTEMS IN ROBOTS

MIT CSAIL Robot Locomotion group
May to August 2014

**2**

**3**

ROBOT CONTROL FOR MULTI-ROBOT FORMATIONS

Mount Holyoke College (MHC) Robotics group
September 2013 to May 2014

FERROMAGNETIC NANOSTRUCTURES FOR MAGNETIC MEMORY DEVICES

MHC Scanning Probe Microscopy Lab
May 2012 to May 2014

**4**

**5**

RIGIDITY THEORY FOR DECENTRALIZED ROBOT CONTROL

MHC Robotics group
September 2013 to May 2014

PREDICTING AURORAL ENERGY AND JOULE HEATING

National Corporation for Atmospheric Research
June to August 2013

**6**

## EMPLOYMENT

**2015 - present** — Software Engineer at Google, Project Aura: Glass and Beyond

Rapid prototyper and software engineer for wearable devices

**2014 - 2015** — Course Manager at Udacity

Courses taught: Developing Android Apps, Machine Learning, Web Programming, Introduction to Java Programming, & Introduction to Computer Science.

**2012 - 2014** — Teaching Assistant at Mount Holyoke College

Courses Taught: Data Structures, Quantum Mechanics, Real Analysis, Linear Algebra, Discrete Mathematics, Electromagnetism, and Force, Energy + Motion.

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## LEADERSHIP

### CO-FOUNDER

Trailzz: a crowdsourced decision-making mobile app
January to May 2015

### SECRETARY GENERAL

Five College Model United Nations 2012-2013
May 2012 to May 2013

### USA HEAD

Literaty Pakistan: social innovation and awareness for Pakistan
Sept 2012 to May 2014

## HACKING PROJECTS

more on blog: minasmindmaze.com

### RUBIK'S HARMONY game

Map rubik's cube movements to changes in musical notes

### MUHAFIZ.ORG website

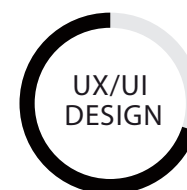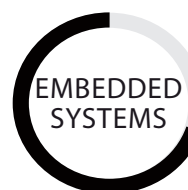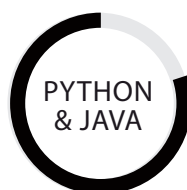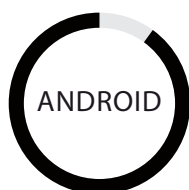Crowdsourced crime collection and reporting for Pakistan

### SAVEME Android application

Automatic location detection for SOS messages

### COOKUPS.ORG website

Recipe search based on ingredients and allergies

## SKILLS

ANDROID  WEB  PYTHON & JAVA  MACHINE LEARNING  EMBEDDED SYSTEMS  UX/UI DESIGN

## AWARDS

### MOUNT HOLYOKE COLLEGE

1. Magna Cum Laude 2015
2. Phi Beta Kappa Honors Society 2015
3. Fennema & Strahman Prize in Computer Science 2015
4. Rogers D Rusk Memorial Prize in Physics 2015
5. Sarah Williston Prize for academic excellence 2015, 2014 & 2013
6. Sarah Williston Senior Scholarship 2015 & 2014
7. Sarah Williston Scholar 2014
8. Mildred L Sanderson Prize for excellence in Mathemaics 2012
9. Bennett Prize for excellence in Physics 2012

### THE LYCEUM SCHOOL, KARACHI

1. Valedictorian Award 2011
2. Luca Pacioli Award for Accounting 2011
3. A.H Bhuiya Award for Economics 2011
4. Shamim Azam Award for Mathematics 2011
5. Highest Aggregate in four subjects 2011

### COMPETITIONS & SCHOLARSHIPS

1. Winner of Code Jam for Google I/O 2015 & 2014
2. Best Business Pitch in Pitch4 Competition 2015
3. Audience Favorite Pitch in Pitch4 Competition 2015
4. 3rd Prize in Grinspoon Enterpreneurship Competition 2015
5. Google Anita Borg Scholarship Award 2014
6. 4th position in CCSU Regional Math Competition 2013

### CAMBRIDGE INTERNATIONAL EXAMINATIONS

1. Highest Achievement in A Level Economics (Top in Karachi 2011)
2. Highest Achievement in A Level Further Mathematics (Top in Karachi '11)
3. Best Across Four A Level Subjects (Top in Karachi 2011)
4. Highest Achievement in O Level Principles of Accounts (Top in World '09)