

# NISHANT SHUKLA

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Graduate Student  
U.S. Citizen

GitHub: BinRoot  
<http://shukla.io>

## OBJECTIVE

I aim to contribute my mathematical rigor to the art of programming. With Artificial Intelligence as my core research interest, I'm looking to solve hard problems.

## EDUCATION

### UCLA M.S. COMPUTER SCIENCE

Oct 2014 - present / Los Angeles, CA

- Research Assistant for Prof. Song-Chun Zhu
- Teaching Assistant for Adv. Programming Languages

### UVA B.S. COMPUTER SCIENCE, MATHEMATICS

Sept 2010 - May 2014 / Charlottesville, VA

- Teaching Assistant and undergraduate researcher
- Cumulative GPA 3.8, Highest Distinction

### GMHS INTERNATIONAL BACCALAUREATE

May 2010 / Falls Church, VA

- President/founder of Rocketry and Math clubs
- Cumulative GPA 4.0, Valedictory Scholar

## TECHNICAL SKILLS

**LANGUAGES:** Java, C++, Haskell, MATLAB, R, Python, Rust, Bash, Scala, C#/.NET, Javascript, Assembly, Erlang

**TECHNOLOGIES:** Android, Windows Phone, Git, App Engine, MongoDB, Node.js, OpenCV, GNU/Linux

**PROJECTS:** VibeBack (PennApps 2013, Best Use of Firebase), Ranker.io (API Hackday SF 2013, 3rd place), BattSignal (PennApps 2012, Bay Area Favorite), LyncUp (XAPFest 2012, 1st Place), EventHandler (Facebook hackathon 2012, 2nd place)

## SELECT PAPERS

### HASKELL DATA ANALYSIS COOKBOOK

Summer 2014

Textbook on data analysis and machine learning algorithms in Haskell (ISBN 978-1-78328-633-1)

### PATENT PENDING

Fall 2015

Portable image analysis chemistry apparatus. (U.S. Provisional Patent No. 62/245,473)

### AAAI AI-HRI PAPER

Summer 2015

Short-paper on human-robot interaction

### UNDERGRADUATE THESIS

Spring 2014

Effects of real-time synaptic plasticity using spiking neural network architecture

## LEADERSHIP

### HACKUVA ORGANIZER

Fall 2013 - Summer 2014

Lead organizer for a 500-person programming contest<sup>a</sup> at UVA

### INTRO TO HASKELL INSTRUCTOR

Spring 2013

Independently lectured semester-long course<sup>b</sup> in the Computer Science department at UVA

### FIRST FOUNDER

Fall 2012 - Spring 2014

First founder of an independent incubator for student entrepreneurs<sup>c</sup>

<sup>a</sup><http://hackuva.io>

<sup>b</sup><http://shuklan.com/haskell>

<sup>c</sup><http://hackcville.com>

## EXPERIENCE

### SPACEX MACHINE LEARNING INTERN

Summer 2016 / Hawthorne, CA

### UCLA FULL-TIME RESEARCHER

Summer 2015 / Los Angeles, CA

- Lead our core robotics learning platform
- Published multiple research papers

### FOURSQUARE SOFTWARE ENGINEER INTERN

Summer 2014 / New York, NY

- Built and improved core Android product
- Implemented server APIs in Scala

### FACEBOOK SOFTWARE ENGINEER INTERN

Summer 2013 / Menlo Park, CA

- Developed a face-tagging interface on Android
- Implemented intelligent photo caching systems

### MICROSOFT SOFTWARE ENGINEER INTERN

Summer 2012 / Redmond, WA

- Integrated Visual Studio with MSDN using C#/.NET
- Acted as both the program manager and developer

### WILLOWTREE APPS JUNIOR MOBILE DEVELOPER

Summer 2011 / Charlottesville, VA

- Published the University of Virginia Android app
- Published the nTelos Wireless Pavilion Android app

### BUCHANAN & EDWARDS IT INTERN

Summers 2008-2010 / Arlington, VA

- Hacked electronic pen for handwriting recognition
- Programmed SharePoint ticketing systems

## HONORS

### UCLA FELLOWSHIP

Winter 2015

For achieving distinguished academic records as a graduate student (\$5,000)

### ELSIE HUGHES CABELL SCHOLARSHIP

Spring 2014

For scholastic merit (\$6,000)

### UVA INTERMEDIATE HONORS

Falls 2012

For top 20% GPA in first two academic years

### A. THOMAS YOUNG SCHOLARSHIP

Spring 2012

For demonstrating leadership and intellectual breadth (\$3,000)