

NISHANT SHUKLA

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Graduate Student
U.S. Permanent Resident

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^a M.S. COMPUTER SCIENCE

Oct 2014 - present / Los Angeles, CA

- Research Assistant for Prof. Sarrafzadeh
- Teaching Assistant for adv. programming languages

UVA^b B.S. COMPUTER SCIENCE, MATHEMATICS

Sept 2010 - May 2014 / Charlottesville, VA

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

GMHS^c INTERNATIONAL BACCALAUREATE

May 2010 / Falls Church, VA

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

^aUNIVERSITY OF CALIFORNIA, LOS ANGELES

^bUNIVERSITY OF VIRGINIA

^cGEORGE MASON HIGH SCHOOL

EXPERIENCE

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

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)

PUBLICATIONS

HASKELL DATA ANALYSIS COOKBOOK

Summer 2014

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

MICROTAS 2014 CONFERENCE PAPER

Summer 2014

Image analysis on Android to predict protein concentration

PAPER SUBMISSION

Summer 2014

Image analysis on Android to detect pathogen presence

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^a at UVA.

INTRO TO HASKELL INSTRUCTOR

Spring 2013

Independently lectured semester-long course^b in the Computer Science department at UVA

FIRST FOUNDER

Fall 2012 - Spring 2014

First founder of an independent incubator for student entrepreneurs^c

^a<http://hackuva.io>

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

^c<http://hackcville.com>

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)