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, Computer Vision, Natural Language Processing, and Functional Programming as my core research interests, I'm looking to solve hard problems.

EDUCATION

UCLA[a]   M.S. Computer Science
Oct 2014 - present / Los Angeles, CA

- Computer Vision researcher under Prof. Song-Chun Zhu
- 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

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[a]UNIVERSITY OF CALIFORNIA, LOS ANGELES
[b]UNIVERSITY OF VIRGINIA
[c]GEORGE MASON HIGH SCHOOL

EXPERIENCE

UCLA   Full-time Researcher
Summer 2015 / Los Angeles, CA

- Lead the core architecture of our robotics task-platform
- Published papers on learning and knowledge representation

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 on Android

MICROSOFT   Software Engineer Intern
Summer 2012 / Redmond, WA

- Designed and implemented a Visual Studio start-page using C# / .NET
- Filed a patent about intelligent advertisement using face pose detection

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/C++, Haskell, MATLAB, Python, C#/.NET, Javascript, R, Rust, Bash, Scala, Assembly, Erlang
Technologies: Android, Windows Phone, Git, MongoDB, Node.js, OpenCV, GNU/Linux, ROS, AWS,
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

Optical Imaging Research Paper
Summer 2015
Image analysis on Android to detect pathogen presence

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

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]

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[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)