

SHUVAJIT DAS

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Professional Experience

CASK, PALO ALTO, CA

Intern & Contractor, May 2014 – Present

- Create scalable HTTP service APIs for CDAP, a cloud-based big data application platform for developers
- Contribute to other APIs that are both internal and user-facing
- Write big data applications using CDAP which stores, queries, and graphs data in real time

ROBOTICS AND AUTONOMOUS SYSTEMS LABORATORY AT VANDERBILT UNIV, NASHVILLE, TN

Intern, January 2011 – August 2012, May 2013 – August 2013

- Integrated a heart rate sensor with a virtual reality program to develop an intelligent system
- Interfaced a Kinect sensor and a humanoid robot to make the robot respond to human gesture

DESIGN LAB 1 AT UNIV. OF MICHIGAN, ANN ARBOR, MI

Consultant, September 2013 – May 2014

- Work on personal programming projects to promote use of the area by others
- Develop an online database to manage current inventory of hardware

Education

UNIVERSITY OF MICHIGAN, ANN ARBOR, MI

Bachelors/Computer Science Candidate, Dec 2015 (Junior)

- Enrolled: Machine Learning
- Completed: Data Structures & Algorithms, Intro to Comp Organization, Discrete Math, Linear Algebra
- Honors and Societies: Eta Kappa Nu (HKN) active member, Dean's List, University Honors, Jean Fairfax Scholarship, John Deere Industry Scholarship

Programming and Projects

LANGUAGES/FRAMERWORKS:

- Proficient: Java, C++, C#, Python, HTML, CSS, JavaScript; Android, .NET, JQuery
- Basic: Matlab, Bash; Apache Twill

HARDWARE: Microsoft Kinect, NAO Humanoid Robot, Arduino, Leap Motion

HACKATHONS/PERSONAL PROJECTS:

- Tidbits: Android app for keeping notes on important people and being reminded to keep in touch with them
- Leap Motion Synthesizer and Drums: Uses Leap Motion hand tracker to play MIDI notes and drums in the air
- Chordinator: User enters musical melody and receives a chord progression that fits that melody

RELEVANT SITES: <http://www-personal.umich.edu/~shudas/>, <https://github.com/shudas>

Papers and Presentations

- "Development of an Intelligent, Real-time, Heart Rate Sensitive Virtual Reality System." Young Scientist (2012)
- "Gesture Recognition using Commodity RGB-D Sensor for Imitation Learning Platform for Children with Autism." HCI International (2013)

Extracurriculars

- Music: Flute, Piano, Vocals; Studio recording