Viraj Ojha Sinha

vsinha@purdue.edu
vsinha.com
github.com/vsinha

428 N Grant St. Unit 2
West Lafayette, IN 47906
(408) 505-1275

OBJECTIVES

To learn about the human brain from all aspects, including the neurobiological, computational, and psychological. To continue to build my software engineering experience, hone my programming abilities, and acquire new skills in an environment where people enjoy working.

EDUCATION

Bachelor of Science, Computer Science — Expected May 2015
Purdue University, West Lafayette, IN
2 Concentrations: Machine Intelligence, Foundational CS
3 Minors: Biology, Psychology, Philosophy

SKILLS

Languages: Python, JavaScript, C, C++, Java, HTML/CSS, ARM & x86 assembly

Relevant Coursework: Analysis of Algorithms, Data Structures, Systems, Computer Architecture, Cognitive and Computational Neuroscience, Numerical Methods, Computer Graphics, Object Oriented Programming, Advanced C Programming, Linear Circuits

Tools: Linux / UNIX, MATLAB, OpenGL, SAS, oscilloscope, multimeter, function generator, lathe, mill, drill press, micropipette, microcentrifuge, X-ray chromatograph, various organic chemistry lab equipment

EXPERIENCE

Engineering Intern — May 2014 - Present
Numenta, Inc., Redwood City, CA
- Created an intelligent stock market data tracking application using NuPIC
- Increased Grok model serialization performance by 2 orders of magnitude

IT Support Technician — March 2012 - Present
Krannert School of Management, Purdue University
- Provide courteous and patient on-site and phone-based technical support and troubleshooting for nontechnical faculty, staff, and students
- Image and prepare new computers for deployment

Undergraduate Researcher — Summer 2012
Neuroprosthesis Research Lab, Purdue University
- Added data logging to software reading from electrodes implanted in rat brains
- Worked with graduate student on neural implant electrode coatings research

Software Development Intern — Summer 2011
Intrepid Technology, Inc., Palo Alto, CA
- Contributed Unified Parallel C (UPC) support to GNU Indent
- Constructed a parallelized search-based artificial intelligence Mancala player in C/UPC
- Added UPC support to several open source syntax highlighter projects
- Administrated several VMs for software development

EXTRA

Executive Board member of BoilerMake, Purdue's Hackathon
Won "Most Viable Startup" and "Most Technically Impressive" awards at MHacks III
Co-Founder and Vice President of Student Think Tank for India (STTI)
Purdue FIRST Robotics Mentor for Jefferson High School Team 1646
FIRST Robotics Team Captain for Saint Francis High School Team 2367
Semi-professional event and hobby photographer

REFERENCES

Available on request.