

RISHABH MEHAN

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WORK EXPERIENCE

- Equidate, Inc.**, Software Engineer Feb 2015 – Present
- Hired as first engineer, working on restructuring the product to accommodate better control upon scaling and user experience from the analytics.
 - Added a functional Administrative console to improve the operations and team management
- SnapLogic, Inc.**, Software Engineer Intern June 2014 – Aug 2014
- Developed cross-platform desktop installers (Windows, Mac, Linux) for easy one-click installs of new developer environments.
 - Added new functionality to the public API to provide access to provision new users as SnapLogic “snap developers” (a core product functionality). This solved a crucial pain-point for developers and allowed them to have an easier time developing “snaps”.
 - Created the developer portal (knowledge base) from scratch. Wrote technical tutorials to help developers get started with the SDK.
- Computer Science Corporation**, Software Engineer June 2012 – Aug 2013
- Developed a system to automatically detect and fix issues on Windows machines by scraping and indexing solved MSDN issues and automatically generating code to apply patches listed on each issue.
 - Created infrastructure-monitoring tools to determine server uptime, network connectivity, disk usage, and more.
 - Built a web interface to allow users to access remote servers through remote desktop directly from the browser (no install required).
- Wallhood**, Founder and Developer Dec 2010 – Nov 2012
- Started and developed a social networking site that provided services like media streaming/sharing, forums, a marketplace, etc.
 - Organically grew the user-base to over 500,000 members and handled all aspects of marketing, PR, and support.
- Whedia Technologies**, Co-founder and Technical Lead Nov 2011 – May 2012
- Started a technical consulting company to create custom e-learning solutions for schools and universities.
 - Received multiple contracts from various education institutions, totaling \$180,000 in annual revenue.

PROJECTS AND RESEARCH

- Computer Vision Based Eye Tracking (Demo Video: <http://youtu.be/1WbWOsB3gkE>)**
- Developed a computer vision algorithm to track the user's pupil and use it to control the mouse, games, and robots with their eyes.
- The Effect on Media Streaming Content Delivery Using P2P Networks With & Without Clustering (Paper: <http://bit.ly/11pXqbt>)**
- Studied the efficiency of using a peer-to-peer network for content delivery by applying K-means clustering to find P2P groups.
 - Analyzed the effect on bandwidth and latency and drew conclusions about how clustering can help throughput in a P2P network.
- Developing Video Quality Metrics Based on Optical Flow in Motion Media (Demo Video: http://youtu.be/U_IssMNoujY)**
- Designed a computer vision algorithm to determine the subjective quality of a video like a human would (i.e. HD/good vs. SD/bad)
 - Used the optical flow throughout the video and the resistive motion of the frames to come up with quality results.
- Low-Cost Hover-Detecting Multi-Touch Table**
- Built a multi-touch and hover-detecting screen by using the shadow cast by objects above the screen as points on the device.
 - Won 3rd place at the 2009 International Conference of Contemporary Computing (out of 12,000 project submissions).
- Movie Recommendation System**
- Wrote crawlers for IMDb and Wikipedia to aggregate over 1 billion data points on movies, TV shows, reviews, metadata, etc.
 - Wrote a modified version of K-nearest neighbors to cluster movies and deliver accurate recommendations based on users' tastes.
- Notepad Pro (Standalone Cross-Platform, Multi-Language IDE)**
- Built a new IDE from scratch, inspired by Notepad++ except with compilers and IDE functionality built on top of the text editor.
- Personal Computer Butler (easy language command interpreter)**
- Wrote a program to take in speech input, parse it, and execute a command on the computer based on the input.
 - Ex: “Go to desktop, open Facebook, navigate to my profile page” will perform the actions as the commands are said out loud.
- Data Analysis of Bank Account Data Sets Using MapReduce**
- Created a Hadoop cluster to parse analyze billions of data points from bank account data sets to identify accounts owned by the same person and generate a unified summary of all accounts a single user owns.

SKILLS

- 9+ years of experience with Java, C/C++, PHP, Javascript, JSP, MySQL, MS SQL, Oracle, MongoDB
- Other Programming background – Python, ReactJS, Bash shell, Gulp, Backbone models.
- Worked with Hadoop/MapReduce, OpenCV, OpenMP, jQuery, Codeignitor, Maven, Photoshop, Dreamweaver, Gimp

EDUCATION

- M.S. Computer Science**, New York Institute of Technology • GPA: 3.8/4.0 Aug 2013 – Dec 2014
- B.S. Information Technology**, Jaypee Institute of Information Technology • GPA: 3.0/4.0 July 2008 – June 2012