

Ramanpreet Nara

2A Software Engineering

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RELEVANT SKILLS:

- Languages: • **JavaScript, PHP, Puppet, BASH, Java, C, HTML, and C++**
- Frameworks: • **Node.js, Express, Symfony2, and jQuery**
- Tools: • **Git, UNIX, Vagrant, Packer, VirtualBox, MongoDB, Chrome JS Debugger, SourceTree, MySQL, Ubuntu Server, Navicat**

WORK EXPERIENCE:

Senior Interactive Developer:

Digital Communications – Ontario Public Service

Orientation Website (PHP | MySQL)

- Secured application by removing dependency on old, deprecated, and unsafe PHP APIs
- Wrote scripts to streamline user creation, saving valuable hours upon launch

Premier's Website (PHP | Symfony2 | Apache | Memcached)

<http://www.premier.gov.on.ca/>

- Leveraged various methods of caching to significantly reduce page load times

Workflow Optimization (Vagrant | Packer | Puppet | BASH)

- Built and provisioned Vagrant development environments for five projects
- For these projects, reduced setup time (and frustration) by over 80%

SIDE PROJECTS:

Matrix-Tools (Android API | Java)

<http://git.io/ASFERA> OCT 2013 - PRESENT

- Wrote a library using Java to implement Matrix operations
- Refactored code to polynomial time, increasing application efficiency tenfold

MeetUp (Node.js | Express | Socket.io | MongoDB)

http://git.io/nlsA_g AUG 2014 - PRESENT

- Built a web application, allowing clients to hold public and private meetings
- Used the MVC paradigm, with WebSockets, to facilitate client-to-client communication

MIPS-to-HEX (JavaScript | Node.js)

<http://git.io/MWSmyw> SEPT 2014 - PRESENT

- A library written to convert MIPS Assembly to hexadecimal instructions

COURSE PROJECTS:

Scribbler 2 Robot – Obstacle Avoidance (SE101 & Python | Myro Library)

SEPT 2013 – DEC 2013

- In a team, taught the Scribbler 2 robot to efficiently traverse a city based on the gridiron plan
- Using trigonometry, coded a preliminary object avoidance algorithm in Python

CHEM Quiz Maker (Chemistry & Visual Basic)

<http://git.io/ADwSgg> MAR 2012 – APR 2012

- A GUI program developed to teach and test students on basic Chemistry
- Wrote an algorithm to shuffle question lists of variable sizes

VOLUNTEERING EXPERIENCE:

Lunch and Learn Tutor, West Humber CI, Toronto, ON

SEPT 2011 – JUN 2013

- Spent 100+ hours/year during lunches assisting students struggling with Math and Science

School Prefect during Parent-Teacher Nights, West Humber CI, Toronto, ON

2009 – 2013

- Directed and supervised student volunteers, letting them know their duties
- Assisted with the setup and cleanup of school

EDUCATION:

University of Waterloo, Waterloo, ON

SEPT 2013 – PRESENT

- Dean's Honours List

ACTIVITIES AND INTERESTS:

- Following technological advancements; scripting; digital art; web-development; Project Euler
- As a young grasshopper, exploring the secret ways of the JavaScript ninja