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Highland Park, IL 60035

DEEP AGGARWAL

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GitHub LinkedIn Twitter Portfolio

EMPLOYMENT

Software Engineer	**Wolfram Research**	**March 2015 - Present**

- Wolfram License Manager; wrote 21,000+ lines of code
- Authentication and User Management System – AuthBox; wrote 16,000+ lines of code
- Enterprise Resource Planning – ERP System; provided technical support and assistance
- Web Application - Order Processing; Licensing Solution and Processing
- Proactive and Leadership Role
- Technologies used: C, C++ (C++11 and Boost library), JavaScript (Vue.js), HTML, CSS (SASS), Python, Shell Programming, ZeroMQ, MongoDB, Gulp, CMake, GDB, Valgrind, Git, CentOS, Jira, Bitbucket, Trello, MySQL Workbench.

Software Engineer	**Citrix System Inc.**	**Aug 2013 – Feb 2015**

- Worked on HTTP Live Streaming (HLS) protocol; programmed different tools to support HLS.
- Worked on the Fusion project and delivered results to the customers Sprint and SoftBank.
- Refactored the code to follow the object-oriented programming design.
- Developed scripts in Perl to analyze the logs from the customers.
- Ported unit tests to Google unit-test framework (googletest).
- Technologies used: C++, Perl, Shell programming, Wireshark, Hex Editor, Perforce.

Software Developer Intern	**Cazoodle Inc.**	**Jan 2013 - May 2013**

- Provided hardware and software maintenance of the servers.
- Developed internal and external web-application tools for Grant Forward Project.
- Performed statistical analysis of data using Python and maintained updated documentation about the servers.
- Technologies used: Python, JavaScript (jQuery), HTML, CSS and Git.

EDUCATION

Urbana-Champaign, IL	**University of Illinois Urbana-Champaign**	**Spring 2011 - Fall 2013**

- M.S. in Electrical and Computer Engineering, Dec 2013. GPA: 3.54/4.00

Urbana-Champaign, IL	**University of Illinois Urbana-Champaign**	**Fall 2008 - Fall 2010**

- B.S. in Electrical and Computer Engineering, Dec 2010. GPA: 3.47/4.00

PERSONAL PROJECTS

- **MyFitness** (present). Personal fitness/workout tracker. Node.js, Electron, JavaScript, HTML, CSS, Handlebars.js, electron-packager
- **ResumeCreator** (2017). Application that lets you create your resume with ease; no headaches of formatting. Node.js, Electron, JavaScript, HTML, CSS, Handlebars.js, electron-packager
- **4cast** (2017). Command line utility to get the weather information. Node.js, JavaScript
- **Personal Website** (2017). My personal website. Node.js, Express.js, JavaScript, HTML, CSS
- **Tewp** (2016). Unique text editor with magical powers written using Electron (http://electron.atom.io/). Node.js, Electron, JavaScript, HTML, CSS, Google Drive API, electron-packager
- **Chrome Extensions** (2016). iRead4u, View-GitHub-Commits. JavaScript, CSS
- **sj** (2016). Command line utility to search for jobs on Github Jobs based on keywords and location. Node.js, JavaScript
- **Quick Notes** (2016). Application to take quick notes. Node.js, Express.js, JavaScript, HTML, CSS
- **Text-To-Speech** (2016). Simple application to convert text to speech. Node.js, Express.js, HTML, JavaScript, CSS, npm
- **Budget Manager** (2016). Application that keeps track of budget (expenses). Python
- **Games** (2015 - present). Online and Desktop games: Tic-Tac-Toe, Mastermind, Memory, Hangwoman, Shootin' Goobers, Ping-Pong. Django Web Framework, Python, HTML, JavaScript, TypeScript, CSS
- **hacknews** (2015). Command line utility to access Hacker News website. Python
- **Todo List Application** (2015). Todo-list application. Python, JavaScript, HTML, CSS, Django Web framework
- **calcGPAv2.0** (2012). Cumulative GPA calculator app for Mac OS X. C++, Qt

LANGUAGES AND TECHNOLOGIES

- C++; C; Python; JavaScript; TypeScript; Shell Programming; Java; Perl; PHP; SQL; HTML; CSS; SASS
- Django; Electron; Express.js; Node.js; Vue.js; Bootstrap; AngularJS; ZeroMQ; Amazon Web Services (AWS)
- Eclipse; XCode; Wireshark; MATLAB
- Git; Perforce; SVN