

# Gurbinder SANDHU

## PERSONAL DATA

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## HIGHLIGHTS OF QUALIFICATION

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- 3+ years of programming experience in web development from multiple projects for the University of Waterloo.
- Programming experience with Python, JavaScript, JQuery, Django, HTML, CSS as evident by completion of past employments.
- Developed many web based application which are being used heavily at University of Waterloo.
- Strong problem solving and team working skills developed through working on many projects.
- Excellent data analysis skills gained through many astrophysics lab reports.

## WORK EXPERIENCE

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| JANUARY-<br>PRESENT 2017    | <p>Python Programming at FACULTY OF ENGINEERING<br/><i>University of Waterloo</i></p> <p>Started multiple projects for the faculty of engineering at Waterloo. Developed a python/django project that kept track of office space in engineering department with easy to use map based UI and ability to expand the project in future with API based front and back end. Also completed a python/django project that track students for research purposes, this project only had a three week window to complete and was started and finished ahead of schedule. Many problems occurred during the development as students are not allowed to download PDFs and videos from the web application. Improved time management skills as well learned many new tricks for developing python projects quicker.</p> |
| MAY 2016-<br>DECEMBER 2016  | <p>Python Programming at FACULTY OF ENGINEERING<br/><i>University of Waterloo</i></p> <p>Completed a class based python application that pre-existed with many bugs and glitches. Optimized the web application, added new features, and improved the UI so it can be used with minimum instructions by the University.</p>   |
| SEPTEMBER-<br>DECEMBER 2015 | <p>Technical Analyst - IT at KODIAK GROUP HOLDINGS COMPANY<br/><i>Cambridge</i></p> <p>Maintained a DNN based web application, had no prior work done with DNN so had to learn how DNN works and had to fix many bugs. Improved learning skills because had to learn how DNN based application works and learned some creative ways to fix problems because had no permissions to change the back end of the application.</p>   |

## WORK EXPERIENCE CONTINUE

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| SEPTEMBER 2014-<br>MAY-2015 | <b>Development Support at SCIENCE COMPUTING SERVICES<br/><i>University of Waterloo</i></b><br>Updated a student sickness accountability website from php to django, but had to rebuilt the entire application from ground up with new features and better UI. Turned the application API based so it is easier to maintain and update in the future. Developed a quiz based application that helped students figure out what courses to choose based on their answers. The core was built in django but most of the work was done in Javascript/JQuery with drag and drop capabilities for easier usability. Developed plugins to add the ability to drag and drop panels to create a json fields for a project that pre-existed. |
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## EDUCATION

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| SEPT 2012-<br>PRESENT | <b>Bachelor of Science in Physics with minor in Computer Science, <i>University of Waterloo</i></b><br><b>200 University Ave W, Waterloo, ON. N2L 3G1</b><br>Honour Physics w/ Co-op and Minor in Computer Science |
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## SCHOLARSHIPS AND CERTIFICATES

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| SEPT 2012 | University of Waterloo Merit Scholarship(\$1,000) |
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## COMPUTER SKILLS

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| Basic Knowledge:        | C, JAVA  |
| Intermediate Knowledge: | C++, JSON, Git, MIPS   |
| Advanced Knowledge:     | Python, JavaScript, LINUX, ubuntu,<br>L <sup>A</sup> T <sub>E</sub> X, JQuery, HTML, HTML5, CSS3, Django, Ajax, mySQL, Celery, Linux |

## INTERESTS AND ACTIVITIES

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Technology, Open-Source, Programming for personal projects: Developed a small applications that helped my friends and I pick a restaurant to eat during lunch from a given plaza.

Astrophysics, Physics, Computer Science  
Sports, Video Games