

# NICHOLAS FOTI

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**EDUCATION** | University of Illinois Urbana-Champaign | B.S. Computer Science | May 2016 |

**CIRRICULUM HIGHLIGHTS** | Software Engineering | User Interface Design | Artificial Intelligence | System Programming | Programming Languages and Compilers | Data Structures | Numerical Methods | Database Systems | Algorithms and Comp Models Computer Architecture

**PROFICIENT IN** | C | C ++ | Java | Python | PHP | MySQL | Swift | JavaScript | AJAX | HTML | CSS | Assembly (MIPS, x86)|

**SKILLS** | Agile | MVC | VCS (subversion and git) | Continuous Integration (Jenkins)| JUnit | PHPUnit| Swing| Tkinter |Bootstrap

## PROJECT EXPERIENCE|

### Plugin Development

Extended the functionality of a test analyzer plugin for the continuous integration service Jenkins | Java, Javascript| Agile, Subversion, Continous Integration |Fall 2015|

### Game Development

Fashioned 2D arcade style game | Java | Fall 2012|

Shaped a GUI Chess Game | Java | Swing | Fall 2014|

### Website Design

Launched social networking site for the purpose of organizing sporting events (plannplay.web.engr.illinois.edu) | PHP, Javascript, HTML, CSS, AJAX, MySQL| Agile, MVC, Git, PHPUnit, Bootstrap| Spring 2016 |

Manage and update official Delta of Sigma Phi Delta Fraternity website| PHP, HTML | Fall 2013/Spring 2014|

Built a website that parses XML Data from subversion and allows users to comment on each project | PHP, MySQL | Fall 2014|

### App Development

Created Android application to display live content from Reddit |Java | Spring 2016|

Developed iOS application that parses "Magic the Gathering" card information as JSON data from an open-source API and allows users to search for cards |Swift | Summer 2015|

Designed and implemented Android application prototype for grocery delivery service | Java | Git| Fall 2015 |

## PROFESSIONAL EXPERIENCE|

### Teaching Assistant

Proctored weekly office hours for introductory computer science course

Assisted 50 students weekly with assignments, learning Java, learning Object-oriented programming, and using Subversion|2015 |

### Computer Tech Assistant

Installed/Updated operating systems and other software

Set up computer systems

Reimaged old computers

Repaired broken computers | Baton Rouge, LA Summer 2012 |

## COURSE EXPERIENCE|

### Operating Systems| Spring 2016|

Designed dynamic load balancer| Python | Sockets, Multithreading|

Experience programming for linux kernel | C | Kernel Programming, Linux|

Implemented a Rate-Monotonic Scheduler|C | Kernel Programming, Linux|

### Database Systems | Spring 2015|

Constructed social networking site for local students to plan festivities| PHP, HTML, CSS| Bootstrap|

### Computer Architecture |Spring 2014|

Assembled 32-Bit processor |Verilog|

### System Programming | Summer 2013|

Produced a system of parallel threads that runs a makefile by checking for non-dependent rules| C | Multithreading|

Simulated a linux shell | C | Multithreading |

## LEADERSHIP EXPERIENCE|

Sigma Phi Delta Fraternity for Engineers | *Webmaster* | Fall 2013-Fall 2015| *EOH Chair* | Spring 2014|

Association for Computing Machinery

Engineering Council - *Representative*