

# Jacob Grace

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## Objective

To obtain a full-time entry level position at a software development company starting January 2020.

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## Education

**Iowa State University**, Ames, IA. Graduating December 2019

- Bachelor of Science in Software Engineering and a Minor in Business
    - GPA 2.8
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## Work Experience

**Iowa State University IT - PHP Web Developer**, Ames, IA. Aug 2017 - Present

- Led and managed a team of five developers to develop a new website for a client
  - Held weekly stand up meetings to discuss current project tasks and future goals
  - Designed and implemented database table schema using Doctrine ORM
  - Analyzed MySQL queries and made improvements that resulted in 20% faster page loads
  - Discovered and fixed bugs in the departmental library code that was causing user dissatisfaction
  - Collaborated on the creation of multiple web applications using Zend Framework 2 (ZF2) in a LAMP (Linux, Apache, MySQL, PHP) environment
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## Projects

CyBot A Unity game in C#

- Extended the supplied AI components to improve functionality and animations
- Increased the user experience by adding detailed menus and game sounds

Destiny 2 Manager A Discord bot to help manage Destiny 2 character inventories

- Created the application using Discord.Net to allow commands to be issued in a chat server.
- Wrote asynchronous methods to consume the Destiny 2 REST API

Holiday Lights Pattern System A web server and camera system to detect and program holiday lights

- Used Python and OpenCV to analyze and detect light positions
  - Developed a state machine to handle light animations and system updates
  - Managed a team of 3 other developers to maintain project deadlines and create cohesive programs for cross future teams to continue to develop and maintain
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## Relevant Skills

- Languages: PHP, Java, C#, JavaScript, Python
  - Web development technologies: HTML, CSS, Bootstrap, jQuery, JSON, REST
  - Tools: Jira, Confluence, Git, Bitbucket
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## Clubs and Leadership

- Fencing Club (2015 - 2018) | Vice President 2017
- Computer Science and Software Engineering Club (2016 - 2019)