

# AIDEN PETERSEN

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## EDUCATION

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### Iowa State University

Bachelor of Science, Computer Engineering (GPA: 3.95/4.0)

Ames, IA

Aug. 2020 – May 2024

## SOFTWARE DEVELOPMENT EXPERIENCE

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### Software Engineer

Iowa State Web Development Services

June 2021 – Present

Ames, IA

- Developed the back and front-end of a site to host a photography competition using Laravel and Vue.js alongside MySQL for the database
- Implemented additional features to local Laravel libraries such as expanding form generation capabilities and creating additional utility functions
- Learned the fundamentals of team software development using tools like git and Jira

### International Collegiate Programming Contest Team

Iowa State University

Dec. 2020 – Present

Ames, IA

- Work in teams of 3 to solve difficult problems in a short period of time
- Apply important computer science concepts such as algorithmic complexity and dynamic programming

### Freshman Honors Research Project

Iowa State University

Jan. 2021 – June 2021

Ames, IA

- Developed a multi-class classifier using least squares
- Gained experience using python with numpy and the MNIST data set

## PROJECTS

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### CprE 288: Embedded Systems

Roomba Navigation

June 2021 – Present

Ames, IA

- Developed a GUI using python's Tkinter to control and monitor the movements of the Roomba
- Created libraries for various components, such as an IR and PING sensor
- Wrote a project proposal to clearly communicate the problem we were trying to solve.

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, Haskell, Elixir, SQL, PHP, JavaScript, TypeScript

**Platforms and Frameworks:** Django, Laravel, JUnit, Windows, Linux

**Development Tools:** Git, Github, Bitbucket, Jira, Confluence, Vim, Bash

**Other Software:** Latex, MySQL, PostgreSQL, Microsoft Office Suite

## LEADERSHIP & INVOLVEMENT

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IEEE-HKN, Member

Apr. 2021 – Present

Swim Club, Member

Aug. 2020 – Present