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Ames, Iowa
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Seth Braddock
Software Engineer

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Seeking to obtain a full-time position in web, application, or embedded development where I can use my technical knowledge and programming ability for the company objective.

SKILLS

Languages	C/C++, Java, PHP, JavaScript, Python, VHDL
Tools and Technologies	MySQL, Express/React/Node, Arduino, Unity
Other	Git/GitHub, Project Management, Agile, KiCAD, MS Office

TECHNICAL EXPERIENCE

Student Web Developer   June 2021 – Present
Iowa State University   *Ames, Iowa*

- Tech stack: PHP, jQuery, Bootstrap, MySQL
- Created new tools for faculty use in the Office of Admissions
- Developed features in applications for admission, fixed bugs, and updated content
- Extracted project requirements from staff in other departments

Supplemental Instruction Leader   August 2020 – January 2021
Iowa State University   *Ames, Iowa*

- Led student groups to guide learning in calculus courses
- Created lesson plans and presentation material to aid learning
- Developed active learning strategies for the students' benefit

EDUCATION

Bachelor of Science, Computer Engineering, *Iowa State University*   August 2018 – Present
Minor in Music Technology
Cumulative GPA: 3.34

KEY PROJECTS AND COURSEWORK

JUCE Audio VST
My currently active personal project that uses the C++ JUCE framework to create an audio plugin for a Digital Audio Workstation. Inspired by a tutorial video that implements a parametric equalizer, but I plan to alter it to be a wavetable synthesizer.

Python Trading Bot
A personal project that involved using the Coinbase API to automate cryptocurrency trading. The bot implements a 'buy low, sell high' strategy to profit by trading at a user-specified interval. It's still a work in progress, and I'd like to create a web app dashboard to accompany the bot and track progress.

Social Media Web App
A project done in school for a course in User Interface Design. It was created with MySQL, Express, React, and Node where I had full-stack responsibilities. The site idea was a social network for pet owners and had features such as calendar events, friends, user posts and an account/login system.

Coursework
– Unofficial Degree Focus Areas: Software and VLSI
– Elective courses: User Interface Design, Project Management, Embedded Systems Design, Signal Analysis, Circuit Design

ACTIVITIES

Game Development Club	Fall 2021 – Present
GENRE Music Club	Fall 2018 – Present
Career Fair Ambassador	Fall 2018
World Food Prize Borlaug Scholar	Winter 2018