

Sovann Chak

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EDUCATION

Iowa State University

Bachelor of Science in Software Engineering with Cyber Security minor

December, 2019

Ames, IA

WORK EXPERIENCE

Principal Financial Group

Software Engineer Intern

May 2018 – Present

Des Moines, IA

- Created an internal web application using AWS (Amazon Web Services) for Principal's Property Asset Research team, which streamlines asset acquisition. I automated the retrieval of brokered data on property assets by developing a data-pipeline which would pass data through a natural language processor and archive relevant data to be easily analyzed (Python, AWS, HTML5/JS, MySQL).
- Developed a Java backend for a REST application that integrates Salesforce chat capabilities which has increased customer service agent utilization rate by 200 percent (Java, Spring, Maven).

Iowa State University

Computer Science Teaching Assistant

Jan. 2018 – Present

Ames, IA

- Teach and assist students in a programming lab setting of which the aim is to learn about object-oriented languages. Interpret, debug, and compile student code in order to present feedback and grade student assignments based on correctness and efficiency. Lead weekly sessions with students to provide detailed answers and advice for programming related questions (Java).

CAMPUS ACTIVITIES

ISU Robotics Club

Autonomous Snowplow Developer

Aug. 2018 – Present

Ames, IA

- Tasked with generating a points list from a provided map and automating data flow for the decaWave (a chip that facilitates proximity detection). The previous locations of the snowplow need to be automatically fed into the decaWave beacons so that the snowplow can have proper proximity detection (C++).

OpenSrcSTEM

Lead Developer

Aug. 2017 – Dec. 2017

Ames, IA

- Led a team of four toward the successful development of an educational web application with a team of fellow student developers. Implemented MEAN Stack reference architecture to successfully produce application. Received honorable mentions in a software project fair for our team's web application (Node.js, HTML5, MongoDB, AngularJS).

CyMake Club

Webmaster and Sponsorship Chair

Nov. 2016 – Dec. 2017

Ames, IA

- Monitored and updated the club's website (hackisu.org) to provide a smooth registration process for hundreds of attendees. Partnered with local and international companies to raise tens of thousands of dollars in funding to support our student run hackathon.

SKILLS

- **Languages/Technologies:** C++, Java, JavaScript, Python, C, Git, Amazon Web Services
- **Courses:** Techniques for Applied Computer Science, Design and Analysis of Algorithms, Operating Systems
- **Other Interests:** coffee, volunteering, traveling, politics, hackathons, music, art, cooking