

Sovann Chak

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EDUCATION

Iowa State University

December, 2019

Bachelor of Science in Software Engineering with Cyber Security minor

Ames, IA

- Relevant Courses: Algorithms, Problem Solving Techniques for Applied Computer Science, Computer Architecture, Operating Systems, Discrete Mathematics, Linear Algebra

WORK EXPERIENCE

Blue Canyon Technologies

Jun. 2019 – Aug. 2019

Embedded Software Engineer Intern

Boulder, CO

- Produced, implemented a solution to automatically mount a filesystem and customize storage partitions on an HSDR (satellite controller board) at boot and run time. I contributed to a python script which generates auto-code in C from pre-defined tables. By using the auto-code, I was able to enhance the flight software by spinning a new thread to execute various functions I wrote (C, Python, Shell Scripting).
- Tested various features on physical flight boards by writing Ruby scripts to interact with the flight software I developed (C, Ruby, COSMOS).

Principal Financial Group

May 2018 – Nov. 2018

Software Engineer Intern

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

Jan. 2018 – May 2019

Computer Science Teaching Assistant

Ames, IA

- Taught and assisted students in a programming lab. Interpreted, debugged, and compiled student code in order to present feedback and grade student assignments based on correctness and efficiency. Led weekly sessions with students to provide detailed answers and advice for programming related questions (Java).

CAMPUS ACTIVITIES

ISU Robotics Club

Aug. 2018 – Dec. 2018

Autonomous Snowplow Developer

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) these points allow the snowplow to have proper proximity detection (C++).

OpenSrcSTEM

Aug. 2017 – Dec. 2017

Lead Developer

Ames, IA

- Led a team of four student developers toward the successful development of an educational web application using the MEAN Stack architecture to successfully produce an application (Node.js, MongoDB, AngularJS).

SKILLS

- **Languages/Technologies:** C, Java, JavaScript, Python, C++, Git, Vim, COSMOS (Ball Aerospace)
- **Other Interests:** coffee, volunteering, traveling, politics, hackathons, music, art, cooking