Sovann Chak

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EDUCATION

Iowa State University   **December, 2019**
Bachelor of Science in Software Engineering with Cyber Security minor   *Ames, IA*

WORK EXPERIENCE

Blue Canyon Technologies   **Jan. 2020 – Current**
Embedded Software Engineer   *Boulder, CO*
- Software lead on many simultaneous programs. Design and develop driver layer code for various embedded satellite components according to their program needs. Present and provide technical details of our flight software architecture to customers. Develop alongside customers to integrate various payloads, each with unique complexities.
- Cross-functional collaboration from program start to finish. Develop code alongside FPGA and GN&C engineers to enhance our software architecture and implement program needs. Assist test engineers to develop automated test suites, design test procedures, and provide general flight software support.

Blue Canyon Technologies   **Jun. 2019 – Aug. 2019**
Embedded Software Engineer Intern   *Boulder, CO*
- Produced, implemented a solution to automatically mount UBIFS and customize storage partitions on an HSDR (satellite controller board) at boot and run time. Enhanced flight software by adding new features and generic scripting to reduce script redundancy amongst programs (C, Python, Shell Scripting).

Principal Financial Group   **May 2018 – Nov. 2018**
Software Engineer Intern   *Des Moines, IA*
- Created an internal web application which automated the retrieval of brokered data on property assets by developing a data-pipeline that would utilize a natural language processor and archive relevant data to be easily analyzed (Python, AWS, HTML5/JS, MySQL).

Iowa State University   **Jan. 2018 – May 2019**
Computer Science Teaching Assistant   *Ames, IA*
- Taught and assisted students in a programming lab. Interpreted and debugged 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

Senior Design   **Jan. 2019 – Dec. 2019**
Developer   *Ames, IA*
- Designed and developed an iOS application to interface with custom sensors developed by electrical engineering students on the team. Automated the interpretation of data from the various sensors to provide easily consumable information for the user (Swift).
- Programmed multiple embedded BLE (Bluetooth low energy) devices to receive raw data from custom sensors, run algorithms over the data and pass the output to the iOS application using BLE (C).

SKILLS

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