

# JESSON SOTO VENTURA

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## SUMMARY

- **Education:** Computer Science and Physics major at Berea College
- **Experience:** Student Software Engineer and Containerization Engineer at Berea College
- **Honors:** Phi Kappa Phi
- **Hobbies:** Hackathons and Linux

## EDUCATION

**Bachelor of Science in Computer Science with Computer Science Concentration, May 2019**

**Bachelor of Science in Physics, May 2019**

**Berea College, Berea, Kentucky**

Currently in my second year with a junior standing and a GPA of 3.87 out of 4.0

### Courses included:

Software Design and Implementation (Python)

Embedded Systems (C++/C)

Data Structures (C / Python)

Physics I & II

Calculus I & II

Electricity and Electronics (C++)

## EXPERIENCE

**Student Software Engineer, August 2016 to Present**

**Berea College, Berea, Kentucky**

- Leading the restructure and redesign of Labor Status Forms – the oldest and longest running application – from a cluttered and unintuitive web application into a sleek and imitative web application using ASP.NET and C#.
- Developing web application to improve the workflow of various Berea College departments and offices.
- Assisting end users with any issues on production ready projects, while also maintaining and providing new features for the projects.

**Containerization Engineer, August 2016 to Present**

**Berea College, Berea, Kentucky**

- Developed a plan to begin containerizing Berea College's host of web applications, in order to maximize server resources.
- Implemented an experimental server cluster to demonstrate the advantages of containerization using Docker and Kubernetes.

**Desktop Support, August 2015 to May 2016**

**Berea College, Berea, Kentucky**

- Provided in person and over the phone assistance to members of the campus with any technical issues – both hardware and software.

## **Software Engineer Internship, June 2016 - August 2016**

### **Berea College, Berea, Kentucky**

- Worked with a talented team to improve communication between the customer and their clients, by automating data retrieval for the customer's clients
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- Developed a data management tool for the Faculty and Staff Development Office at Berea College using Python, HTML, CSS, and JavaScript.

## **HONORS**

- Phi Kappa Phi – An honors society reserved for juniors in the top 7.5% of their class.
- Berea College Tuition Promise – A scholarship offered by Berea College, which fully covers Tuition.
- Winner of Hack NC's: "Best use of an IBM product" – An award earned at Hack NC, a hackathon hosted at University of North Carolina at Chapel Hill, for the best implementation of any IBM product.

## **HOBBIES**

- Hackathons – I find that hackathons are a great environment for learning new tools, testing out the viability of new projects, and learning to work effectively in high stress situations.
- Electronics and Embedded Systems – As a Computer Science and Physics major, I find that electronics and embedded systems are a perfect unity of both. Programming for embedded systems is a challenge on its own, and provides me with opportunity to work directly with the hardware and see firsthand how software and hardware interact in amazing ways.
- Linux and Open Source – My introduction to Linux was a bit mischievous. It was through wanting learn how to crack Wi-Fi passwords, that at 14 years old I took to Ubuntu to explore the world of Open Source and Linux. Since then I have been running my own custom install of Arch Linux for 2 years and use Linux along with its open source tools as my daily driver. If windows can do it, Linux can at least virtualize it, if not do it better.

## **SKILLS**

- Linux – I have worked with Linux for approximately 4 years, but am still learning every day
- Web development – I have be developing web applications for Berea College, using Flask, Python, HTML, CSS, JavaScript, ASP.Net and C#, and SQL
- Embedded Systems – I have limited experience with embedded systems – mostly in using Arduinos – but am actively working on improving my understanding of programming for embedded systems.