Ross Kippenbrock

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Brooklyn, NY

Timeline: 1.5 yr. | 8 mo. | 7 mo. | 9 mo. | 3 yr. | 1.5 yr. | 3 summers

Present — 17 — 16 — 15 — 14 — 13 — 12 — 11 — 10 — 09 — 08 — 07

Software Engineer - Yhat
Senior Software Engineer - Alteryx

- Engineering new features and solutions to customer issues in Yhat's flagship product - ScienceOps - a platform for deploying and managing statistical models
- Architecting and building highly available, distributed system to replace current design
- Managing infrastructure for hosted customers on AWS
- Developed a batch job platform using Go and Nomad to manage large data science models running in Docker
- Built sales engineering relationships and secured deal in Riga Latvia after in-person POC generating in $67k in new business
- Yhat was a seed stage startup recently acquired by Alteryx

Engineer - Roush Fenway Racing

- Won 2015 drivers Xfinity series championship as race engineer performing simulations, analysis, and evaluating setup changes before and during races. Also generated race strategies and briefed team leadership.
- Led Roush engineering team at Ford Performance simulator tests feeding improved on track performance
- Built software and analysis tools used by engineering team
- Implemented new statistical techniques to better understand race strategy and improve race performance

Software Developer - Joe Gibbs Racing

- Designed and built internal data analysis application using Python/Django to replace manual process, saving the company valuable time, and is still in use
- Created tools with Matlab and Excel/VB to improve the productivity of the entire engineering team

Rose-Hulman Institute of Technology
B.S., Mechanical Engineering, May 2011

I bike, run, climb, hike, and take photographs in my free time.

Re-learned typing on the Colmak keyboard layout

I enjoy making things, especially electronics projects with Raspberry Pi and Arduino.

Experienced with welding and machining.

Voted runner-up for most valuable FSAE team leader at Michigan competition and for most valuable club president among all school clubs senior year

Software Developer - Passport Parking

- Worked on a team to re-write iOS application using Swift
- Responsible for devising solutions and fixing problems in the Android and browser applications, PHP and SQL server to maintain high quality user experience
- Passport is a Charlotte-based software startup building mobile payment solutions for parking and transit

Race Engineer - Joe Gibbs Racing

- Traveled on two NASCAR cup teams (11 and 18 cars). Analyzed data from simulations and tests to generate the most successful vehicle setups, which lead to 10 wins and 11 pole positions over 3 seasons
- Developed and implemented several development projects including a DOE/optimization software to improve simulation results and race strategy tools

President / Technical Director - Formula SAE

- Co-founded the Society of Automotive Engineers and the Formula SAE team at Rose-Hulman. Led and collaborated with 20 students and school faculty
- Formula SAE is a program where students design and build a racecar to compete against over 100 other schools
- Helped secure funding for club activities from donors

Andretti Autosport - Engineering Intern

- Designed parts for various testing programs, including wind tunnel and chassis testing, working with senior engineers and technical director.
- Implemented new driver development procedures to improve performance engineering in the USF2000 series.

Technology Skills

Skill	Years
Data Analysis	8
Excel/Visual Basic	6
3D Modeling	5
Python	4
Matlab	4
SQL Databases	3
Web Applications	3
JavaScript	3
Docker	2
Microcontrollers	2
Infrastructure	2
Go	1
Swift/Android	0.5