

Caleb Foust

cfoust@sqweebloid.com · 949-436-8782 · sqweebloid.com · github.com/cfoust

EMPLOYMENT	Infrastructure Engineer Embark Trucks, San Francisco, California	Feb 2018 – present
	<ul style="list-style-type: none">· Containerized primary self-driving systems to make the execution environment more reliable and to satisfy production, development, and simulation needs.· Migrated data processing to Spark jobs running in a cloud-based Kubernetes cluster, enabling speedier access to data.· Developed and implemented a system for monitoring safety driver behavior to ensure safe and consistent operation of self-driving semi trucks.	
	Software Developer AkitaBox, Madison, Wisconsin	Jan 2017 – Jan 2018
	<ul style="list-style-type: none">· Built a distributed job queue using ExpressJS and Amazon Web Services' Simple Queue Service that streamlined data ingestion.· Wrote a dev-ops utility in TypeScript and Bash that unified Git, JIRA, and GitHub into a simple, automatic workflow.	
	Co-founder Singularity, Inc, Madison, Wisconsin	Jun 2015 – Apr 2016
	<ul style="list-style-type: none">· Prototyped a pipeline for biomedical research data analysis using Apache ServiceMix and Java that emphasized ease of use and auditability.· Wrote a robust webapp for interaction with this system using Google Polymer that could be hot deployed in seconds to any Singularity instance.	
SIDE PROJECTS	Proto	
	Created a toolkit in Python that makes it easy to generate Anki flashcard decks for learning languages. It automatically pulls in native speaker pronunciation, definitions in English and the target language, and other morphological information.	
	QUAT	
	Turned a children's word game into a cross-platform mobile app using Cocos2DX and C++. I had to massage Google's N-gram data and write complex heuristics to generate puzzles with varying difficulties.	
EDUCATION	B.S. Computer Science University of Wisconsin – Madison	Sep 2013 – May 2017
LEADERSHIP	President Wisconsin Hoofers, UW-Madison	May 2016 – May 2017
	<ul style="list-style-type: none">· Oversaw the club's budget with revenues in excess of \$1.7M a year· Uncovered inefficiencies in lesson instruction by writing a data analysis tool for the club in Python· Negotiated a deal with UW-Madison's IT department to legitimize document, email, and cloud access for all of the organization's 150 named positions	
LANGUAGES	<ul style="list-style-type: none">· English: My native language.· Russian: I read Russian books and can discuss politics.· Spanish: I can participate freely in casual conversation.	
INTERESTS	Geopolitics, languages, penetration testing, game development, weightlifting, vim, systems programming.	