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Colten Jackson

Fullstack Software Engineer

Technical Skills	Education
Proficient NodeJS/Javascript, Python, Git Bash, Make, Arduino, HTML + CSS	Fall 2016 Fullstack Academy of Code Web Development Bootcamp
Knowledgable FFMPEG, Debian, BSD, Docker, SQL + ORM, ChatScript, NLP, Python Pandas, Conda, Gensim, SciKit	Spring 2015 Fab Academy MIT Media Lab's "How to Make Almost Anything"
	2010-2014 Parkland College Associate's Degree in General Science
	2008-2010 Columbia College Chicago Jazz Theory and Performance

Professional Experience

Annalect Labs (Omnicom Media Group)	R&D Programmer	Jan '17- Mar '18
Responsible for conceptualizing and implementing fullstack applications for internal use Updated the look and feel of prototypes to match mock-ups by design team Developed 3D data visuals for Hololens using Blender + Python and created tutorials		
Champaign Urbana Community Fab Lab	Digital Fabrication Technology Consultant	Apr '14- July '16
Developed unique curriculum for a wide variety of 'maker' activities Maintained 3D printers, laser engravers, and CNC machines Learned how to use new equipment before training other individuals and groups. Transitioned the lab's financial operations from paper to self-hosted PoS software		
Institute for Genomic Biology at UIUC	Photogrammetry Consultant	May '14- June '14
Evaluated a variety of approaches to capture 3D models of plants in the field Participated in sprints on an agile research team Presented resulting point clouds and meshes via HTML Canvas		

Projects

MIXINT.xyz	A new web stack based on NodeJS Transform Streams
"Mixable Interface" is a fullstack framework for composing applications locally or online Presentation layer based on custom elements/Web Components with HTML-only fallbacks Back-end server treats every response as a transform of a request Currently consists of 20+ published npm modules, with many more components to come.	
AUBI: Annalect Utilitybot	Scripted text interface for data science queries
Compared technical capabilities and pricing for available NLP + Conversation frameworks Chose open source, self hosted solution "ChatScript" to run python scripts via conversation Spun off components as open source projects "mixint", "condavision", "py-validate" AUBI was presented at Cannes Festival 2017 and covered in AdWeek magazine	
textreeplot.xyz	Open-world, multiplayer javascript environment.
Implemented collaborative code editors and terminal emulators via web sockets Uses a touch compatible window manager from scratch in native javascript Useful for remote working, distance learning, and inclassroom screensharing Workspaces can be managed as 'sites' to host content for other domains, e.g.: coltenj.com	
Electric Waste Orchestra	A series of music-making devices built from e-waste

Invented musical input device from discarded harddisk drives and circuitboards
Built custom electronic circuits, 3D printed parts, and synthesis software
Presented at: Electronic Life Histories at Purdue 2016, Hackers on Planet Earth in NYC 2014
Press: Covered in Wired, Public Radio Iternational, CoolHunting.com