

Jake Peacock

Problem Solver, Software Developer, Designer, Engineer
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EDUCATION

Rice University, Houston, TX — B.S. Computer Science
AUGUST 2014 - MAY 2018

St. John's School, Houston, TX
AUGUST 2010 - MAY 2014

EXPERIENCE

HomeAway, Austin, TX — Software Developer
JUNE 2016 - AUGUST 2016

- Developed the v2 version of the Core-API team's "cross-database view" engine
- Built, tested and implemented a more efficient process for updating projected objects
- Designed the engine for easy and independent scaling; wired with kafka for messaging
- Shadowed team members as they monitored and repaired the platform's infrastructure
- Built a movie database web app utilizing the Homeaway stack

Advisory Board Company: Crimson, Austin, TX — Software Developer
JUNE 2015 - AUGUST 2015

- Worked on Data Integration team for Crimson Care Management application
- Implemented validation processes for the CCM rule engine
- Scaled application engine to facilitate rule creation for integration engineering team
- Developed effective technical presentation and communication skills
- Engaged with software architecture design and application tools

Design For America — Project Team Lead & Studio Lead
SEPTEMBER 2014 - PRESENT

- Attended DFA National Leadership Studio '15 & '16 to learn how to lead a chap
- Actively manage (3-5) projects to ensure their design satisfies community partners
- Oversee and guide studio teams through the human-centered design process
- Designed and implemented solutions to local and social issues in Houston and Rice

PROJECTS

Rap Learning Neural Net – Neural Machine Learning 502

- Constructed a multi-layer perceptron network to recognize artists from lyrical features
- Tested and adapted network design and parameters to identify artists within a genre
- Learned how to implement self organizing maps and recurrent neural networks

Cloud Analysis Platform – Software Methodology 410

- Designed high level system architecture of a customizable data analysis platform
- Managed a scrum team of seven in utilizing an agile development process
- Implemented robust, scalable and extensible data ingestion and cleaning engines

Houston Food Security – Design For America

- Participated in DFA + Hormel Foods sponsored project to target food insecurity
- Designed a shopping & cooking resource pack for food insecure families
- Implemented prototypes with Brighter Bites, a Houston nonprofit focused on health

PROGRAMMING SKILLS

Proficient in:
JAVA, C, C#, Python,
Matlab, Javascript

Experienced with:
C++, Node, Elasticsearch,
Kafka, Azure, Postgres

Skills:
– Web Development
– Machine Learning
– Platform Design
– Design Thinking

COURSEWORK

COMP
– Neural Machine Learning
– Software Engineering
Methodology
– Parallel Programming
– Operating Systems
– Advanced Object Oriented
Programming
– Algorithmic Thinking
– Computer Systems

MATH & NEUR
– Honors Calculus III
– Honors Linear Algebra
– Neurosystems
– Cognitive Neuroscience

ACTIVITIES & INTERESTS

Entrepreneurship & Design
Repeatedly teaches the design process; leads the Rice chapter in pursuit of higher impact human-centered design solutions

Neuroscience
Often pursues neuroscience news and technologies, motivated by both neuroscience and neural network research