Matthew Logan

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EDUCATION

Tulane University, New Orleans, LA, USA — Aug 2013 - May 2017
- Bachelor of Arts | Asian Studies & Computer Science

Donghua University, Shanghai, China — Aug 2015 - Dec 2015
- Obtained Chinese proficiency certificate

EXPERIENCE

Consultant at Tulane University Technology Connection — Apr 2015 – Present
- Conducted computer, tablet, and accessory transactions and educated customers on key features and maintenance of products
- Performed computer hardware and software repairs with a team of other technicians
- Maintained an inventory of over 100 products on a monthly basis
- Promoted to senior student worker and acted as shift leader to oversee store operations on weekends

User Experience and Design Intern at Tongji University — Aug 2015 – Dec 2015
- Identified various client needs by prototyping innovative user experience interactions and conducting case studies
- Operated as the sole programmer on Human Machine Interface for Automobiles
- Presented prototypes and findings to clients during major milestones of the project

SKILLS

Languages: Java, C, C++, HTML, CSS, JavaScript, Python, Ruby, SQL, Bash
Frameworks: Ruby on Rails, Django, AngularJS, D3JS, P5JS
Developer Tools: Git, XCode, Android Studio, Eclipse, Bracket, Atom, VIM, CLI
Certifications: Apple Certified Macintosh Technician (ACMT)
Apple Product Professional (APP)

PROJECTS

Virtual Pen Pal (Work in Progress)
As my senior capstone project, I am using natural language processing and machine learning to aid language learners in practicing their target language using an online chatbot. Through mass user training and an open-sourced code (ChatterBot), I aim to provide a fluid learning experience for users by mimicking a conversational chat session with a native speaker.

Tulane Online Transportation System (TOTS)
In an AGILE and testing based environment, I worked as the Scum Master on a group project that would allow students to schedule Tulane shuttles and for shuttle managers to respond to their requests. With Ruby on Rails, we created a full-stack website that fulfilled the needs of the Tulane community.

Human Machine Interface for Automobiles
With a group of UXD students, I conducted user studies to produce a car interface that would provide a greater ease of use while driving. Using Java on Android and our case study findings, I programmed a prototype for milestone presentations to the commissioning client (Zhejiang Geely Holding Group Co., Ltd).

Volume Rendering Visualization Project
Using CMake, I developed a model to view a CT scan of a human skull. The model could be rotated, spliced, and zoomed. A color curve was created that allowed for isolation of the different components of the model i.e. the skull, the brain, or the skin.

COURSES

CMPS 2170: Discrete Math
CMPS 2200: Algorithms
CMPS 2300: Computer Systems and Networking
CMPS 3120: Visualization
CMPS 3140: Artificial Intelligence
CMPS 3260: Algorithms and Complexity
CMPS 3300: Software Studio
CMPS 4750: Computer Networks