(Elliscope) Mingzhe Fang

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EDUCATION

Bachelor of Science, Computer Science — Expected Graduation May 2017
University of Southern California, Viterbi School of Engineering — **GPA 3.90**

SKILLS

Programming Languages: C++, Python, Java, HTML/CSS, JavaScript, PHP, Qt
Applications: Visual Studio, Matlab, Foundation, Parse , GitHub, Adobe Photoshop

PROJECTS

StudyOn | Designer and Front End Developer Fall 2014
TrojanHack Hackathon | Los Angeles

- Conceptualized StudyOn as an instant study-group-creating WebApp
- Programmed the Front End of Webapp using **HTML**, **CSS**, **JavaScript** and **Foundation Framework**
- Assisted teammate on Back End data base construction using **Parse Cloud Platform**
- **2nd** Place winner out of the 24 teams and over 100 participants

SCalendar | Designer and Back End Developer Fall 2014
HackSC Hackathon | Los Angeles

- Designed a WebApp that reads in students' customized schedule from Google Calendar and analyze time distribution and peers' ranking
- Programmed Back End data analysis functionality using **Google Calendar API** and **OAuth**

Cinelink | Co-Designer and Back End Developer Fall 2014
Comcast NBCUniversal Hackathon | Universal City

- Co-Designed a WebApp that recommends movie based on social network friends' feedbacks
- Implemented movie keyword search count and ranking system using **Twitter API** and **Spreadfast API**

Monopoly Game (CS103 Class Final Project) Spring 2014

- Created Monopoly game board using **Adobe Photoshop** and integrated customized game features in **C++**
- Designed and implemented Graphical User Interface using **Qt**

WORK EXPERIENCE

USC Information Laboratory Medical Mobility Data Analysis**, Research Assistant** Summer 2014-Present

- Analyze patients' mobility data using **Principal Component Analysis** method
- Compute turning angle and moving speed using **Matlab**

USC Information Technology Services, Student Computer Consultant Fall 2014-Present

- Answer over **30** phone calls daily to help students and professors troubleshoot computer problems
- Execute **Bash commands** to address accounts, email, and networking problems
- Collaborate with a team of **38** student workers on maintaining and updating IT troubleshooting website

COMPETITIONS

USC Boeing Case Competition Spring 2014

- Evaluated existing aircraft data and co-designed an unmanned aircraft based on power and payload data
- Optimized plane component design and reduced overall cost by 20 percent in comparison with standard model
- Presented in front of over 20 Boeing engineers and **1st Place** winner in the overall competition

HONORS&AWARDS

- USC Academic Achievements Award in USC 2013 fall semester
- 2013 Year USC Viterbi School Dean's list
- USC Dragon Boat Rookie of the Year 2013