Fang (Frank) Sun

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EDUCATION

University of Virginia | GPA: 3.95/4.0   **Charlottesville, VA**

Major: B.S in Architecture and double in Computer Science   *2019.8 - present*

Architecture Relevant Courses: *Research Studio IV, Building Matters (BIM), Urban Design Studio*

Computer Science Relevant Courses: *Program and Data Representation, Software Development Method*

Cornell Summer Precollege   **Ithaca, NY**

Six-week credit course, *Introduction of Architecture*: A+, *Studio*: A   *2018.6 - 2018.8*

PROFESSIONAL EXPERIENCES in *ARCHITECTURE*

Perkins&Will   **Washington D.C.**

Design Intern   *2022.5 - 2022.8*

➢ Helped benchmark projects of UVA Gilmer Hall and Chemistry Building Renovation, created further templates in Revit.

➢ Helped design the loading dock and back entrance for Omega and Key West Buildings in Rockville and rendered images.

➢ Self-designed parametric shelf for the DC office, proposed eight iterations using grasshopper and dynamo to generate forms.

University of Virginia, School of Architecture   **Charlottesville, VA**

Teaching Assistant   *2021.9 - present*

➢ Worked as TA in PLAC 4010 course, *Neighborhood Planning Studio*, tutored 14 students using ArcGIS and Rhino to locate site and further analyzed the urban context in detailed drawing with Illustrator.

HDR Inc   **Arlington, VA**

Design Intern   *2021.12 – 2022.01*

➢ Helped to draw analysis diagrams and recreate unit models for a children's hospital, using AutoCAD, BIM, Rhino and PS.

➢ Self designed and developed a series of iterations of facade for the project in the schematic design process with grasshopper.

➢ Self created new grasshopper plugin written in Python to help future HDR designers using the grasshopper templates to generate parametric forms, specially using curves and round shapes.

AZL Architects in Southeast University   **Nanjing, China**

Research Assistant   *2021.1 – 2021.3*

➢ Helped Professor Zhang Lei categorize drawings and diagrams about Ruralation Museum Hotel for media.

➢ Assisted the conceptual design, including material collection, site condition, urban context and climate data analysis by ArcGIS and SPSS, and helped complete the first version model of Lei House by Rhinoceros.

MAD Architects   **Beijing, China**

Assistant Architect   *2020.7 - 2020.12*

➢ Worked with Dang Qun and Ma Yansong, helped developed the circular circulation for the in-process project Jiaxing Civic Center, and finished the east wing first and second floor sections and image rendering.

➢ Assisted design and produced technical drawings for the public courtyard and nearby urban context in the project Pingtan Art Museum, edited multiple proposals and updated the second version project BIM Model.

➢ Helped improve the UI design for the firm website, i-mad.com, proposed the menu tab to be set on the left side of the page.

PROFESSIONAL EXPERIENCES in *COMPUTER SCIENCE*

Alibaba Group Holding Limited   **Hangzhou, China**

Java Developer   *2021.6 – 2021.9*

➢ Attended AI Manufacture Project and created online IoT system for XINIU factories in Hangzhou by Aliyun.

➢ Reprogrammed Zebra printers and embroiderers with Java and ZPL languages, compatible with online services.

Beijing ByteDance Technology Co., Ltd   **Shanghai, China**

Lark Frontend Technical Services   *2021.3 – 2021.6*

➢ Provided Technical Services for Lark Open Platform (Test API, Webhook Robots, mini-programs)

➢ Wrote Java/Python request code in Lark Knowledge Base, debugged and customized designs for Lark users.

Roboticsplus.AI (Shanghai) Co., Ltd   **Shanghai, China**

Project Assistant   *2020.5 - 2020.8*

➢ Engaged in Landscape Scheme of JINDI Project; focused on installation design with Rhinoceros software.

➢ Assisted in the development of robot arms with C++, Java languages and programed their movements.

APPLE Inc.   **Shanghai, China**

System Test Design Lead (PTA)   *2017.4 - 2018.10*

➢ Attended iOS Developer Program, reviewing system functionality with data collection and API testing.

➢ Led system test design of macOS Developer Program (10.14), debugged 20 issues, with 3 core security alerts.

PROJECT EXPERIENCE

ETCP Co., Ltd.   **Beijing, China**

Project Initiator/ Leader (PTA)   *2016.10 - 2018.3*

➢ Organized a team of eight to research the parking issue in Shanghai.

➢ Developed the new parking system prototype, redesigned the public parking space with Rhino and BIM.

➢ Installed devices in garages in designed, publicized the application in AppStore and Google Play.

➢ Applied and received the national patent (**201721325329.0**).

LittleHummerChess Team   **Shanghai, China**

Chief Executive Officer (CEO)   *2019.4 – Now*

➢ Created chess education company to teach people from all ages chess playing.

➢ Self-made 270+ tutorial videos on Youtube, TikTok, Bilibili, etc, online, with more than 300,000 subscribers.

➢ Self-programmed chess playing website and mini-program in WeChat with Node.js and React.

SKILLS & INTERESTS

Programming software: Java, Python, MATLAB, HTML.

Visualization Software: Photoshop, Illustrator, InDesign, V-ray, Lumion, Enscape, keyshot.

Drafting and Modeling Software: Rhinoceros, Grasshopper, Sketchup, AutoCAD, ArcGIS, Revit, BIM.

Prototyping Tools: 3-D Printing, Laser Cutting, CNC Printing, Wood/ Bamboo cutting.

Interests: 14th-year chess (National master), tennis, Rubik's cube, biking, photography, drawing.