Rui WANG

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EDUCATIONAL BACKGROUND

Xidian University **Xi'an, CHN**

Bachelor of Science in Electronic Information *Sep 2015 - Jul 2019*

- Experimental Class, Enrolled 60 Students from 1000+ Science and Engineering Freshmen
- Overall GPA: 3.3/4.0 Major GPA: 3.5/4.0
- Relevant Courses: Introduction to Computers (94), Graphic Basics with Computer Graphics (89), Advanced Mathematics (95), Internet Technology and Application Foundation (88), Random Signal Analysis (88), Electromagnetic Propagation (94), Power Line Communication Technology (90), Electronic System Design (88), Science and Technology Essay Writing (90)

WORKING EXPERIENCE

Huawei Technologies Co., Ltd **Xi'an, CHN**

Software Engineer, Hicloud/Cloud Bu/Container Domain Service Project Group *Apr 2020 - Sep 2021*

- Quality Review of Code, conduct functional verification and security test of installation and deployment code of underlying platform for FusionStage PaaS, reconstruct the code that failed the test; merge the repeat function code; split and modify the redundancy code, reduce the complexity of code, improve operating efficiency of code, modify over 8000 lines of code
- Carry out secondary development design based on Kubernetes, use CRD to implement customization Controller to extend Kubernetes API, realize the automatic creation application example, management and configuration. Conduct remote procedure call via kubebuilder & client-go, develop and package binary file using Golang, published on the Linux server and used for Hicloud commissioning and operating
- Front-end Web development of Hicloud. Based on the frames of react and angular, develop Huawei Private Cloud and Public Cloud CIE of Front-end monitoring alarm module and traffic governance and network topology module, according to the microfront-end integration, enable the function modules of two technical frameworks could call each other, improve the product development rate and delivery rate, develop codes over 32000 lines
- Uncoupled language package from project code, Preprocessing the international data (over forty thousand pieces) by the means of Python, bring in the module of angular-translate, inject $translate service into controller, separate the language package from project code to avoid contamination of global naming

RESEARCH EXPERIENCE

Target Tracking based on Twin Neural Network **Xi'an, CHN**

Research Assistant, advised by Associate Professor Jianlong ZHANG, Xidian University *Feb 2019 - May 2019*

- Compare the network model of similarity network algorithm of SiamFC and Sa-Siam, carry out comparative analysis of precision and success rate of two tracking algorithms in terms of different scenarios by the means of Python Ubuntu 16.04 and Pytorch deep learning framework of VOT 2017
- Based on performances on the data sets Vot2017 of two algorithms, evaluate and improve network model. In order to solve the inadequate distinguished characteristic ability of SiamFC tracking algorithm, optimized the general step size of neural network structure and output characteristic size

Optimized Layout of Electric Vehicle Charging Station based on WCVD-SAM **Xi'an, CHN**

Research Group Leader, advised by Lecturer Jiteng JIA, Xidian University *Feb 2018 - May 2018*

- Process massive amount of data (more than 500k) generated in the U.S. Ireland, and New Zealand from 2010 to 2016 by the means of Python, establish quantitative evaluation system of charging station planning through comparison of regional differentiation. Determine evaluation factors of planning numbers of charging piles by the means of analytic hierarchy process
- Build a prediction model based on WCVD-SAM, use algorithm of Voronoi to identify service areas of each charging station, come up with the optimized layout result and programming flowchart, simulate SA to optimize economic costs, predict the layout of charging station in next two years, compare the validity of real data and the accuracy rate is around ninety percent

Snake Robot Design Project **Xi'an, CHN**

Research Group Leader, advised by Professor Xinhuai WANG, Xidian University *Dec 2016 - May 2017*

- Significance of the project: Design a Snake Robot to survey the complex amphibious environment in waterway, including but not limited to rescue after disaster or facility maintenance
- Structure design and movement principle: considering the snake robot must adapt to amphibious environment, design the waterproof snake body by thread double groove design and reserve waterproof rubber trough via Pro/e, Modularized snake body with the help of embedded design platform of NI-myRIO, enable the each joints could adjust independently
- Human-computer Interaction: Snake Robot equipped with temperature and moderate sensors, positioning modules could acquire environment location information, generate the real-time feedback to LabView

Awards

- Meritorious Winner COMAP's Mathematical Contest in Modeling 05/2018
- First Prize of Shaanxi Province Mathematical Contest in Modeling of National College Students 09/2017
- First Prize of "Challenge Cup" of Extracurricular Academic Technical Works Competition 01/2017
- Third Prize of National College Mathematics Competition 12/2016

SKILLS AND CERTIFICATES

- **Computer:** Java,Python, Golang, JavaScript, MATLAB, SQL, Shell, PSS, Pro/e, Altium designer, CAD
- **Languages:** Chinese (Native), English (IELTS 6)