

Intern Offer

Seeking Software Engineer Intern in Summer 2018

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EDUCATION

Columbia University

New York, NY

M.S. in Computer Science (Machine Learning Track), GPA: 3.92

Aug 2017 - Dec 2018 (Expected)

- Coursework: Analysis of Algorithms I, Cloud Computing & Big Data, Artificial Intelligence, Database

Nanjing University

Nanjing, CN

B.S. in Electrical Engineering, GPA: 3.83

Sep 2013 - July 2017

- Coursework: Operating Systems, Machine Learning, Develop iOS App, C++ and OOP, Computer Vision

PROFESSIONAL EXPERIENCE

Nanjing University, Vision and Graphics Laboratory

Nanjing, CN

Research Assistant

Oct 2016 – May 2017

- Developed a GoPro-based stereo camera based on deep learning algorithm
- Implemented a 20-layer convolutional neural network using TensorFlow (a deep learning library) and 1080 GPU in Python to calculate disparity and improved accuracy by 84.7% than traditional algorithms implemented in C++
- Calibrated stereo camera using MATLAB, and made dataset consisting of 500 picture pairs

Skydata Infomation Technology CO., Ltd

Nanjing, CN

Software Engineer Intern

Jul 2016 – Oct 2016

- Contributed to the development of SkyDiscovery, a next-generation Python distribution, and got a return offer
- Created the 1st version of installer of SkyDiscovery and its auto-generate script using Shell Script
- Built the first demo of SkyDiscovery using Jupyter Notebook and wrote its technical documentation

SELECTED PROJECT

SmartService - iOS Customer Service App based on AWS (Python, AWS, DynamoDB)

- Developed an end-to-end iOS app with user auth, face recognition, chat bot and sentiment analysis
- Processed context events using Amazon Kinesis Streams and AWS Lambda, stored them in DynamoDB
- Added user auth using Amazon Cognito and built REST APIs using AWS Lambda and API Gateway

TwittMap with Trends - Web App based on AWS (Python, JavaScript, ElasticSearch, Flask)

- Developed a web app to collect and process Twitts, and render Twitts on Google Maps using JavaScript
- Fetched real-time tweets using Twitter API in Python and stored 300,000 tweets using AWS ElasticSearch
- Deployed the app on AWS Elastic BeanStalk in an auto-scaling environment and built REST APIs with Flask

YelpLite - iOS Restaurant App (Java, Swift, PHP, SQL)

- Developed an iOS restaurant app with the user login, reviews, bookmarks and search engine
- Collected data of over 100 restaurants using web crawler and Google Places API in Java
- Implemented persistent storage using CoreData, designed and created REST APIs using Google Cloud, PHP and SQL, and implemented the logic part using Swift

Cloud To Do - Web App of Task List with MEAN (Express.js, MongoDB, AngularJS, CSS, HTML)

- Developed a web app to manage tasks using JavaScript and HTML
- Built REST APIs using Express.js and MongoDB, and developed a web UI using AngularJS and CSS

Panorama Stitcher - Panoramas Stitching App Based on MATLAB (MATLAB)

- Developed an app to stitch pictures to a panorama more conveniently using MATLAB
- Used MATLAB to implement Harris Corner detector to extract features and implement Random Sample Consensus to estimate geometric transformation

TECHNICAL SKILLS

Programming Languages: Java, Python, C, C++, Swift, JavaScript, SQL, Shell Script, HTML, MATLAB

Platforms and Tools: AWS, Linux, TensorFlow, scikit-learn, Xcode, Git, Lambda, DynamoDB, ElasticSearch, Flask

HONORS & AWARDS

- 1st Prize (272/ 13063), National Undergraduate Electronic Design Contest [2015]
- Nanjing University Outstanding Student [2015]