Yuandong Chen

(202)7046436 500 23rd St NW Washington DC 20037 zyz2118acz@gwmail.gwu.edu

EDUCATION

The George Washington University, School of Engineering and Applied Science **Washington, DC**
Master of Computer Science (STEM) *GPA 3.7* *Aug 2017 - present*
- Operating System, Machine Learning, Natural Language Processing, Big Data Processing, Web Developing

University of California, San Diego, Jacobs School of Engineering **La Jolla, California**
Master of Science and Engineering(STEM) *GPA 3.3* *Dec 2016*
- Structure & Analysis of Solids, Elect&Photon Props. Materials, Nanomaterials & Properties

Harbin Institute of Technology, Engineering School **Harbin, China**
Bachelor of Engineering, Material Physics *GPA 3.5* *July 2014*
- Computation Methods, Game Theory, Mathematical & Physical Equations, Complex Function & Integral Trans

EXPERIENCE

Tx Tracker **Washington, DC**
Full Stack Developer Intern *May 2018 – July 2018*
Tela App is built for patients with breast cancer to track their symptoms and give doctors daily data of their patients. It builds close relationship between patients and doctors. Doctors give accurate suggestions based on enough data. Machine learning algorithm like Supported Vector Machine is added for experimental prediction function.
- Built GraphQL API back-end with Elixir/Absinthe, Phoenix Web Framework and Ecto for PostgreSQL
- Built Slack Bot for daily report task (in CSV format)
- Built React Native iOS client: Routing, Authentication middleware with JWT, Data Virtualization
- Added unit/property/mock tests/system tests
- Deployed app onto Google App Engine with Elixir/Mix and Unix/Shell
- Agile Developing with Pivotal Tracker

iOS App link: https://itunes.apple.com/us/app/tela-health/id1395480873?ls=1&mt=8

SwitchPitch **Washington, DC**
Data Analysis *Intern* *April 2018 – May 2018*
Pipeline System and dashboard is built for content engineer. The system automates daily data integration tasks
- Built pipeline system using AWS step function and AWS lambda for OLAP system
- Built dashboard with reactJS, python, d3.js, customized SVG animation supported for data visualization

LiShui Geographic Information Center **LiShui, ZheJiang**
Software Engineer *Feb 2016 – Feb 2017*
The replacement of single server with distributed Erlang server makes backend more robust and efficient. Erlang OTP makes the codebase clean and simple using concepts of functional programming
- Refactor .Net Backend with distributed Erlang Cowboy and database IIS with NoSQL Mnesia
- Maintained geographic server for the local government
- Improved user experience with AJAX and JQuery

PERSONAL AND COURSE PROJECTS

- JavaScript to C++ Transpiler for implementing dynamic properties from static language: https://github.com/Yuandong-Chen/js2cpp
- Coroutine library for massive concurrent programming, supporting 1 billion coroutines with shared stack technique: https://github.com/Yuandong-Chen/coroutine
- Course Paper, Question Answering System for Natural Language Processing course: https://docs.google.com/document/d/1ANzJtFO9gpG8hDPrHBL6CMONgm8OGE4qgcFonWb13_o/edit?usp=sharing
- Course Paper, Using news to predict Stock Movement for Machine Learning course: https://docs.google.com/document/d/1tBfdkS9Yp8fM_ogwajkyoL9jvUtHafz2aoW-TMuCUKU/edit?usp=sharing

ADDITIONAL INFORMATION

I'm a programming language enthusiast and really familiar with C/C++ for Unix-like system programming, Erlang/Elixir for robust distributed system, Java/Scala for big data processing and micro-service, Python for machine-learning and JavaScript for front-end programming. I like reading books. I had read 24 software technical books outside class in 2018. I'm a fast learner and able to pick up one technology easily within a week. Please check out my personal website for more detail: https://yuandong-chen.github.io/DemoForPersonalWebSite

MORE SKILL SET

Middleware: RabbitMQ, Spark, GraphQL relay, OTP, Akka
Machine learning and data processing: scikit-learn, pandas, PyTorch
Cloud Platform: AWS, Google Cloud Platform
Database: MySQL, PostgresQL, Oracle, MongoDB, Redis, Mnesia