Xuehao (David) Hu

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EXPERIENCE

Freelance Web work   ChyWaWa https://github.com/10000TB/ChyWaWaWeb-Old   *Jan 2016 – Dec 2016*
•Separate API services at https://api.chywawa.com Static contents hosted at https://chywawacontent.com
•4 Desktop Machines on backend: Nginx load balancer proxy pass request to the rest backend www servers, memcached handling the PHP session.
•Initiated the base web structure: *Nginx* served *PHP MVC*, dependencies by composer, *Redis* for all video listings with some *mysql* help, *Cron* jobs for accumulating page/video views, *jQuery* with *html* and *css* for frontend
•Developed RESTful services for single video upload, video lists, single comment upload/comments query, directory list, video recommendations list, video meta info (in play page).
•Developed a Hadoop Map-Reduce application generating top 40 video recommendations with *java* and *Hadoop sdk*
•Implemented front-end for categories, directory, upload, legals, sign in/sign up, and a few user management views

Web&Database Developer Colorado Natural Heritage Program https://streamsystem.org/   *Nov 2015 – Dec 2016*
#MS TFS #MySQL #PHP #Windows Server #HTML #JS #Database Dev
• Built a web application that interactively visualize the relational tables in our database with SVG Path and Div, which automatically update relational relations per DB structures.
• Built a search feature by optimizing PHP built-in similar_text() for search through the whole DB for table names, table fields, and specific data entry from millions, which has optimizations to customize the rankings for tables/data entries based on popularity, user preferences

Undergraduate Research Assistant Big Data Group @CSU http://fleetfeet.xuehaohu.com/   *Sept 2015 – Dec 2015*
#Data Visualization #PHP #HTML #JS #PostgreSql #Data Visualizing
•Made a web visualizer, which can dynamically visualize in embedded Map and interactive charts real-time data from our PostgreSQL database that dynamically receives methane data from a methane sensor

IOS Developer   DoTell Inc. http://www.dotell.xyz/   *May 2015 - Nov 2015*
#Agile Workflow #GitHub #MVC #Objective-C #CocoaPods #Start-up
• Finished 11 deliverable front-end views with back-end hookup in Agile environment and deal with ambiguous/under-defined problems. Integrated two CocoaPods frameworks based on object-oriented code base
• Worked with iOS built-in sensors, MapKit, WebKit, UIView Animation, Customized Transitions

EDUCATION

Colorado State University   Fort Collins, Colorado, USA   *Dec 2016*
Bachelor of Science, major in Computer Science & minor in Mathematics   GPA   3.85 / 4

AWARD

Coca Cola Scholar Full Scholarship   *August 2014 – Dec 2016*
• Recognized as one of the two Coca Cola Scholars in 2014

PROJECTS

•**Find the Author**–(david-hu.org)Hadoop Map Reduce Content Based Authorship Detection using Cosine Similarity
•**GOMOKU Reinforcement Training** –A numpy notebook for Reinforced Training on GOMOKU Game
•**Distributed GOMOKU Reinforcement Training**– Distributed the GOMOKU training on a small Clusters of 40

LANGUAGES&TOOLS

• **Languages:** IOS (Objective-C, Objective-C++, Swift, iOS SDK) Android (Java, Android SDK) || Web (HTML, CSS, JavaScript, PHP, MySQL, PostgreSQL, NGINX) || Python, C++, C, Java, Arduino-C
• **Tools**: Eclipse, XCode, Android Studio, Sketch
• **Libraries/Frameworks**: iOS SDK, Android SDK, Cocoa Pods, OpenCV, D3
• **Core Coursework:** Big Data(CS435), Machine Learning(cs480), System Security (CS356), Algorithm Analysis and Design(CS320), Object-oriented Design(CS414), Software Engineering (CS314)
reference available by request