YU ZHOU

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PROFESSIONAL EXPERIENCE

Synopsys | Software Engineer   Mountain View | July 2017 - Current

• Architected a Machine Learning Cluster for the DevOps team to reduce test machine usages by 24 hours per week.
• Created a universal parser utilized in 32 released products to pre-process consistent data from the daily log file to JSON; allowing users to easily feed data readable by the Machine Learning Clusters.
• Created an internal approval process flow system, allowing Project Managers to approve or reject projects at ease. Utilized RESTful API and Java which helped facilitate the entire signing process by 150%.
• Designed an internal calendar to assist PM's scheduling process with rendering framework, VisJS.

Freelancer.com | Software Enginner   Jan 2017 - July 21

• Created a web application with user authentication, utilizing NodeJS, Express, REST, MongoDB, Passport.js
• Refactored CSS code by changing its component structure to a 7-1 Sass pattern, code refactoring process largely influenced by DRY principle. Removed dependency from Bootstrap and implemented the grid system within SASS structure.
• Created an automatic stock and cryptocurrency data scraper and an API; the data scraped are stored in MongoDB and accessible via the API in JSON format.

Serenity Forge | Software Engineering Intern   Jan 2016 - May 31

• Collaborated with a team of 5 to create a hit "Pixel Galaxy" computer game with a Steam rating of 90% and recognized by Smithsonian Institute in 2016.
• Collaborated with a team of 15 to create "King's Bird", a computer video game released on Steam with 8/10 rating and featured on GameSpot.
• Refactored the code of an NES game from C to C# to be supported with WII, constantly code review after submitting the ticket.

PROJECTS

Codejudge | Jan 2016 - Current

• Participated regularly in online coding competition platform, provided coding solutions and Q&A support

Blockmaster | Jan 2018 - Mar 31

• Built a blockchain from scratch in Python, performed 200 test transactions within 10 minutes.
• Technologies used: Python, SHA-256, JSON, Time.py

Campify | May 2017 - July 31

• Created Yelp-like dynamic web app for users to rate, comment, and share campgrounds.
• Technologies used: Node.js/Express, MongoDB, Bootstrap, RESTful routing, Passport.js, Heroku.

Science Discovery| Mar 2016 - May 31

• A static website gives a quick access to essential information at the Science Discovery program.
• Technologies used: Jekyll, GitHub Pages, JavaScript

SKILLS

• **Languages:**   Python, Node, Java
• **Libraries/Platforms:**   Node.js/Express, Flask, jQuery, React.js,
• **Data/Databases:**   MongoDB, MySQL, Machine Learning, Spark
• **Cloud Platforms:**   Amazon Web Servies, Google App Engine, Heroku

EDUCATION

University of Colorado Boulder   Boulder, CO| Graduated 2017

• Bachelor in Computer Science
• Master Level Courses: Machine Learning | Data Mining | NLP with Deep Learning | AI: Principles and Techniques