

# Banzhao Huang

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## Summary

- Tech Skills:
  - Programming Languages: C#, Typescript, Python, SQL
  - Frameworks: React, Node.js, ASP.NET MVC, NServiceBus, MongoDB
  - Technologies: Git, GitLab CI/CD, Jira, Confluence
  - Courses: Machine Learning, Data Structure and Algorithms, Operating Systems, Distributed System

## Education

<b>Boston University</b> - Master of Science in Computer Science	Sep. 2017 - Jan. 2019
<b>Fudan University</b> - Bachelor of Engineering in Software Engineering	Sep. 2013 - June. 2017
<b>Singapore Management University</b> - Exchange in School of Information	Aug. 2015 - Dec. 2015

## Experience

**Arrowstreet Capital, Limited Partnership (Boston, US)** - Associate Application Developer March. 2019 - Now

- Participate in the development of a high-availability, event-driven, distributed schedule system for the user to run programs in the response to asynchronous events.
  - Tech: React, Redux, ASP.NET MVC, NServiceBus, SQL Server
- Participate in the process of moving existing projects from TFS to GitLab, and added with CI(Continuous Integration)/CD(Continuous Delivery) pipeline.
  - These projects are different types involves .NET Framework, .NET Core, FastAPI (Python), Web Applications (React and ASP.NET), and Database (SQL Server) deployed to both Windows and Linux OS.
  - For database related project, finished a proof-of-concept for adding CICD with Redgate SQL Change Automation, which have been adopted by the department.
  - Tech: GitLab CI/CD, Ansible, Docker, DockerPowershell, bash, JFrog Artifactory
- Design and implement new Web applications requested by other teams with latest web technologies
  - Extract common UI components from these apps and provided a shared library used by the department
  - Added automated integration test written in Python with pytest and selenium
  - Tech: React, React Hooks, Typescript, Jest, Es-lint, Prettier
- Key Words: Web, Distributed System, CI/CD, Automation Tests

**Weiwo(唯喔Whale) (Hangzhou, China)** - Software Development Intern June. 2018 - Aug. 2018 & Jul. 2017 - Aug. 2017

- Developed Actualizer, a web annotation tool to build image datasets.
- Implemented the front-end with React and Ant Design.
- Implemented the back-end with Nest.js, MongoDB, TypeScript, Apollo GraphQL.
- Deployed with Docker

**SAP Labs (Shanghai, China)** - Software Development Intern Jan. 2016 - May. 2016

- Conducted research on third-party authorization process of iOS apps for SAP Anywhere developer platform.
- Providing a static library (in Objective-C) for third-party developers to use as an SDK.
- Implemented a build-in Webview control in the SDK for users to log in and authorize in Anywhere's authorization HTML5 page. The rest of the OAuth2 authorization process will be completed automatically by SDK.

## Project

**Httop Task Management System** - Advised by Prof. Weihua Zhang Spring 2017

- Designed and implemented a task management system for users to manage parallel video transcoding tasks.
- Developed and deployed a web application with AngularJS and Node.js as the client-side of the system.
- Developed the server-side with C/C++ on a multi-core workstation. Provided a socket server to handle client-side requests, a transcoding thread pool to allocate computing resources and perform tasks concurrently.

## Reward

1st Prize of National Olympiad in Informatics in Provinces (2012 Anhui)