Chih-Ho Chou

Senior Software Engineer

917-535-9255 | chihho.chou@gmail.com | linkedin.com/in/chih-ho-chou/ | chih-ho.info

Senior Full Stack Software Engineer with extensive experience across various industries and technical stacks. Proven expertise in backend, frontend, and platform/infrastructure development. Recent accomplishments include front-end performance tuning, enhancing web platform stability and observability, and automating CI/CD on a mono repository. Strong advocate for evaluating trade-offs and selecting the most effective tools to address complex challenges.

TECHNICAL SKILLS

Software Development | Software Infrastructure | Distributed Systems | Object-Oriented Programming | Web Development | Troubleshooting | Database Management | Cloud Computing | Agile Methodologies | Project Management | System Testing
Programming Languages: Mostly C#, Java, and TypeScript/JavaScript; some Python and Go
Front End: React/Nextjs, Kendo, jQuery, and CSS
Back End: GraphQL/Apollo Server | Relational SQL/NoSQL Databases
CI/CD: Github Actions, Jenkins, and CircleCI
Cloud Infrastructure: AWS, Terraform, and Kubernetes/Dockers
Observability: Sentry, DataDog, and Splunk
Tools: Git/Github, Bash Shell, Vim/NVim

PROFESSIONAL EXPERIENCE

Software Engineer | Peloton Interactive   02/2021 – 05/2024

- In transitioning to CI/CD for our monolithic repository, the challenge of troubleshooting errors was met with a strategic initiative to bolster code owner coverage. Led this effort, adopting an incremental approach that began with alerting developers to unowned files and culminated in implementing CI checks to enforce ownership rules. This methodical strategy fostered open communication and collaboration among teams, transforming repository into a more unified entity and achieving a significant increase in code owner coverage from 53% to 78% in just two months.

- Uncovered valuable findings both internally and externally during a PoC on the Serverless framework, leading to ruling out its use due to lack of support and incomplete documentation, prompting consideration of 3rd party web hosting with 24/7 support.

Platform Engineer | Buildit@Wipro Digital   04/2018 – 01/2021

- As the lead engineer, spearheaded a pivotal DevOps transformation for an insurance company, enhancing their operational efficiency significantly. Collaborating closely with the engineering team, we overhauled their processes, integrating unit tests and test-driven development practices. This strategic initiative culminated in a streamlined CI pipeline, featuring automated builds and test executions, leading to deployable artifacts within a mere 9 months. The transformation eradicated manual errors, boosted developer morale, and accelerated the release cycle from a cumbersome six months to a nimble monthly schedule, earning accolades from the team as a 'dream come true.'

- Improved code quality and developer efficiency by implementing automated unit testing and test-driven development practices, resulting in 80% test coverage and quick error detection through CI, while also promoting a culture of unit testing among developers through documentation and training.

PRIOR ROLES

Software Contractor at TEKsystems   08/2016 – 10/2017
Senior Software Engineer at IntegriData   10/2015 – 08/2016
Application Developer at The Segal Group   11/2013 – 10/2015

EDUCATION & CREDENTIALS

Masters, Computer Science | New York University, New York, NY
AWS Certified Developer Associate, 2019
Microsoft Certified Solution Developer(MCSD), Web Applications, 2016
Microsoft Certified Technology Specialist, .NET Framework 3.5/4, Web Applications