

Ethan Cao

📅 Age: 33 years old
📅 Service Year: 5 years experience
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♂ Gender: Male
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★ Profession: Fullstack Software Engineer



💬 Personal Advantage

- 5+ years of fullstack development and 3+ years of team management experience, a deep understanding of Node.js and ECMAScript; can do fullstack development at the same time, and can also manage technical teams
- Possess the architectural ability of complex business scenarios, can disassemble business requirements in detail, help the team to make technology selection, multi-dimensional grasping architecture solutions, and high-quality web applications
- Good at algorithm engineering and data visualization, focusing on data-driven, test-driven, business-driven
- Always keep a keen sense of the industry and cutting-edge technology, and continue to learn, and continue to improve yourself in terms of technical depth and breadth; focused on work, enthusiastic and sincere, with a sense of team responsibility; loyal to the goal, mission must be achieved

📁 Work experience

Aug 2019 - Present

DiDi

Expert Software Engineer

Project: DiDi Car Service Risk Control Platform (multi-platform), Car Service Data System(Web)

Position: expert software engineer lead the full-stack team

Technology Stack: Node.js/React.js+Dva.js+Redux.js/Fusion/Mysql/MQ/MongoDB/Redis/Vue.js

Business Results

- Bad debt rate < 2.5%, car loss rate = 0%, provide protection for the assets
- Before leasing, the deposit stratification strategy reduces the interception rate by about 3%, bringing 10% of unique user orders to the platform; during leasing, people and vehicles are reviewed The ratio is controlled at 1:2000 (1:1000 in the industry), the risk coverage rate reaches 70%, and the alarm accuracy rate is over 85%; the success rate of post-rental collection is increased from 15% to over 80%, and the number of days for collection is reduced from 15 days to 5 days
- Departmental risk control costs are controlled below 30¥/car/month
- Led the engineering design and development of related businesses in the process; maintained efficient and close cooperation with various business and R&D departments, and won unanimous praise; won 2019 Cornerstone of the Year Award, 2020 Best Team Contribution Award

Technical Achievements

- There are many scenarios that support algorithm engineering, more than 15 algorithms, such as site selection map, operation cube, risk control monitoring, overdue collection, etc.
- There is a lot of access data at the bottom layer, more than 500 heterogeneous data sources
- Good service stability, availability > 95%
- Participate in the development of two open source projects: <https://github.com/didi/ALITA> and <https://github.com/didi/paladin>
- While completing the business requirements, I also completed API gateway and middleware construction
- Formulate development, testing, DevOps, DiDi cloud service deploy and other related specifications for the team
- Leading the design and development of high-performance, high-concurrency Node.js servers, the average request QPS can reach 5k~2w, and the average response time is less than 200ms, which enables Node.js to achieve high performance and low latency when processing CPU-intensive operations.

Project: IBD Intelligent Production Management System (Web)

Position & Achievement: Technical leader of the Node.js team, leading a team of 10 people, completed the construction of Node.js 20+ microservices and front-end, the website can withstand 3000+QPS, with a server stability of over 90%; more than 100 Provide stable services to several small and medium-sized enterprises, and improve production efficiency by up to 40% for more than 5w workers

Technology Stack: Node.js/jQuery+React.js+Angular.js/Mysql/Redis

Technical Achievements

- Proficient in Node.js web development, can carry out detailed design planning for demand management, including service architecture, related technology selection, database table design, full stack development, performance optimization and other solutions; Familiar with Node.js principles: such as single-threaded asynchronous IO, Event Loop, asynchronous/synchronous API, error handling, streams, events, etc.
- Participated in the development and optimized the system log module.
- Proficient in unit/API interface/E2E testing, based on the Puppeteer/Mocha framework, developed automated testing software for testers for their own systems and put them into production.
- Led the team to carry out front-end transformation, use React.js to develop
- Familiar with the web frameworks Koa.js/Express.js and server-side rendering, and can develop related middleware;
- Familiar with PM2 deployment scheme and related commands
- Proficient in using lodash, moment, axios, Mysql, node-xlsx, ESLint, Babel and other mainstream NPM packages
- Provide infrastructure development for the group, such as SSO, service fuse/limit, service discovery, etc.

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Education

Sept 2013 - Jul 2016	
Dalian Jiaotong University	Math (Master)
Sept 2008 - Jul 2013	
Dalian Jiaotong University	Software Engineer (Bachelor)

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Skills

- Front-End Stack: React.js/Tailwind.css/Less/CSS3/HTML5/Next.js/JQuery/Webpack/Angular.js/Vue.js
- Back-End Stack: Node.js/Koa.js/Express.js/Egg.js/Mysql/KVstore/NPM/MongoDB
- DevOps: Nginx/CI&CD/GitLab/Jira/Docker/K8s
- Cloud Server: Aliyun(similar to AWS)