CLARK PHAN

clarkphan.dev   clarkphan   clark-phan   hello@clarkphan.dev

SKILLS

Languages: JavaScript, TypeScript, Java, Python, HTML, CSS

Libraries & Frameworks: React.js, Next.js, Node.js, Redux, Bootstrap, Tailwind CSS

Technologies: MongoDB, SQL, AWS, Docker, Nginx, Grafana

Workflow: Git, GitHub, Bitbucket, Jira, Confluence, CI/CD, Agile/Scrum

EXPERIENCE

L3Harris Technologies

Software Engineer   July 2020 – Present

- Optimized WebSocket implementation, reducing CPU utilization by 40% and eliminating performance bottle-necks during peak connection periods

- Containerized multiple microservices using Docker and Docker Compose, improving deployment reliability across development and production environments

- Implemented Grafana/Prometheus monitoring, enabling early detection of system issues before affecting users

- Designed and implemented load balancing architecture using Nginx, reducing server load by 33% per-server while maintaining 99.9% up-time for mission-critical applications

- Implemented automated MongoDB database backup system using cron jobs for ERP application, ensuring critical data protection and minimizing potential business impact from system failures

- Mentored 4 junior developers via pair programming and 50+ detailed code reviews, improving team velocity

- Modernized 2 legacy applications to React.js/Node.js stack, improving code maintainability and establishing consistent development patterns across the codebase

Software Engineer Intern   Summers 2018, 2019 & Part-time until September 2020

- Developed 15+ React.js/Redux components for timeline visualization within space mission planning software

- Wrote unit and integration tests using Mocha and Chai testing frameworks, increasing test coverage by 30%

- Resolved 30+ critical UI bugs and optimized component rendering, reducing page load time by 40% for the mission planning timeline

RECENT PROJECTS

Start Page (startpage-clarkphan.vercel.app)

- A new tab application using Next.js, TypeScript, and Tailwind CSS with local storage for user preferences

- Designed with responsive layout in mind for optimal viewing across various devices

EDUCATION

University of California, San Diego   September 2016 – June 2020

B.S. Mathematics – Computer Science

Relevant Coursework: Object-Oriented Design, Design & Analysis of Algorithms, Advanced Data Structures, Web App Performance & Monitoring, Product Marketing & Management

UCSD Extension Coding Boot Camp   November 2017 – February 2018

Certificate in Full-Stack Development (250+ Hours of Web Development Training)

Curriculum: Full-stack web development with JavaScript, HTML, CSS, jQuery, Node.js, MongoDB