

Dang Khoa Le

Software Engineer

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Experience

Software Engineer Intern

Sept 2022 - Dec 2022

ScreenBeam Inc.

- Spearheaded the integration of OneDrive for file download functionality, enabling seamless file access and import into the system, significantly enhancing user experience.
- Implemented Microsoft OAuth 2.0 authentication, optimizing the application's security and access flow.
- Developed and executed unit tests using Mocha to ensure the reliability and robustness of server modules.
- Conducted server performance testing using k6, contributing to the system's scalability and efficiency.

Full-Stack Software Engineer

June 2023 - present

ScreenBeam Inc.

- Led the creation of a district-wide IT management dashboard using Svelte, streamlining administrative and tracking functions.
- Designed and supported a Node.js server setup, integrating HTTP and WebSocket for scalable, real-time communications.
- Built a Teacher Portal with React and Node.js; boosted page performance by 30% through a batch data processing queue.
- Expanded system capacity to handle over 100,000 users, maintaining high availability and optimal performance.
- Reduced server costs by 40% by switching from WebSocket to peer-to-peer WebRTC, reducing maintenance overhead.
- Achievement: 'Best of Show' awards from AV Technology and Tech & Learning Magazines for pivotal contributions to ScreenBeam FLEX and ScreenBeam 1000 EDU Gen 2, recognized for driving innovation in wireless presentation technology.

Project

Vim Note App

- Integrated Google OAuth 2.0 for secure user authentication.
- Implemented a vim-inspired interface for efficient user navigation.
- Enhanced note-taking with auto-suggestions powered by an OpenAI model, similar to GitHub Copilot.
- Utilized delta encoding for efficient data storage.
- Deployed using AWS technologies (RDS, EC2, Amplify) to ensure scalability and robust performance.

Education

University of California Santa Cruz

- Bachelor of Science, Computer Science (2023)

Skills

- Languages: JavaScript (ES6+), HTML5, CSS3, Python, C/C++.
- Frameworks/Libraries: React, Svelte, Node.js, Express.js, VueJS,
- Front-End Development: Responsive Design, Bootstrap, State Management, Hooks.
- Linux: Shell scripting, command-line operations, file system.
- Back-End Development: RESTful API Development, Websocket, WebRTC, Load Balancer.
- Database: SQL, Postgres, MongoDB.
- Tools & Platforms: Git, GitHub, GitLab, Visual Studio Code, Vim.
- Testing/Debugging: Jest, Mocha, Chrome DevTools, Simulation.
- Deployment: Heroku, AWS.