John Wilde

Senior Software Engineer

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- Union City, CA
- John Wilde

Profile

A highly skilled **Full-Stack Software Engineer** with extensive experience in building and optimizing scalable applications across diverse industries, including **social media**, **enterprise security**, and **IoT systems**. Proven expertise in **frontend development** with **React** and **React Native**, **cloud infrastructure** using **AWS**, and **backend development** with technologies like **GraphQL**, **Hack**, and **Python**. Demonstrated ability to lead teams, improve system performance, and implement efficient workflows in high-performance environments. Strong background in **CI/CD pipelines**, **testing automation**, and **source control optimization**. Adept at working in **agile teams** and mentoring junior engineers to foster growth and technical excellence.

Professional Experience

Full Stack Engineer

Meta

05/2021 – Present

- **Led** the development and optimization of the **Instagram Feed UI**, utilizing **React** and **Relay** to improve performance, reduce rendering latency, and enhance user engagement across mobile and web platforms.
- **Engineered** and **optimized** the **Instagram video upload pipeline**, integrating backend services with **AWS S3** and **FFmpeg**, cutting upload and processing time by 50%.
- **Implemented** improvements to **Instagram Stories**, enhancing media serialization for faster viewing and optimizing the **WebSocket-based notifications system** for real-time updates.
- **Developed** and maintained cross-platform features by leveraging **React Native** for mobile and **React** for web, ensuring seamless user experiences across **iOS**, **Android**, and **Web**.
- **Optimized** Instagram's internal build system using **Buck2** and **Watchman**, reducing build/test iteration times and improving developer productivity in the monorepo.
- **Improved** source control practices by advocating for **Meta's custom source control system, Sapling**, enhancing code review workflows and boosting developer throughput through **Phabricator** and **stacked diffs**.
- **Designed** and **scaled Instagram's core authentication APIs**, utilizing **Hack** and **GraphQL** for seamless login functionality across Instagram and other Meta products, ensuring high availability.
- **Mentored** junior engineers, fostering a collaborative, high-performance team environment while driving best practices in **frontend architecture**, **unit testing** (using **Jest**), and **performance optimization**.

Software Engineer

LookingGlass Cyber Solutions, Inc

09/2018 – 05/2020

- **Developed** and maintained **enterprise security applications** as part of a cross-functional **agile development team**, focusing on delivering robust, scalable solutions for real-time security monitoring and threat detection across large-scale enterprise systems.
- **Implemented and optimized core APIs**, **UI components**, and **backend logic**, collaborating with product teams to ensure seamless integration and efficient functionality across multiple security projects and release cycles..
- **Upgraded** and **automated internal testing tools**, introducing advanced **unit and integration tests** that improved overall **test coverage by 40%** and reduced testing cycle times by **30%**, significantly enhancing the development speed and quality assurance processes.
- **Streamlined** the testing framework, making it more efficient and user-friendly for developers, which allowed for

- faster iterations and better collaboration between the security and development teams.
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- **Produced and reviewed** both **internal and external development documentation**, ensuring clear and detailed
- specifications for security features and functionality while facilitating smooth onboarding for new team members
- and clients.
- **Software Engineer Intern**
- *Amazon Lab126*
- 01/2018 – 06/2018
- .
- Collaborated with **Amazon Lab 126 product owners** to design and develop a **unified, intuitive visualization**
- **console** for IoT device data.
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- Led the development of dynamic **IoT data generation** for testing and visualization, utilizing **Python** and the
- **AWS boto3 library**.
- .
- Managed the backend database with **AWS DynamoDB** and implemented a **Python-based daemon** hosted on
- **AWS Lambda**, which monitors database states and triggers additional Lambda functions based on predefined
- events. This architecture enabled efficient, scalable data processing and visualization across a wide range of IoT
- devices.
- **Education**
- **Bachelor of Science - BS, Computer Science**
- *University of California, Santa Cruz*
- 2013 – 2018
- **Skills**
- **Frontend** — React, Relay, React Native, GraphQL HTML/CSS, JavaScript/TypeScript, Redux, Webpack
- Mobile Development (iOS/Android), Responsive Design WebSocket and Real-Time Communication
- Systems
- **Backend Development & APIs** — Node.js, Hack, Python, FFmpeg GraphQL, RESTful APIs, AWS SDK
- (boto3) AWS Lambda, AWS DynamoDB, AWS S3 Database Management: SQL, NoSQL
- **Cloud Infrastructure & DevOps** — AWS (Lambda, S3, DynamoDB, EC2, CloudFormation) CI/CD:
- Buck2, Watchman, Jenkins, Phabricator, EdenFS Docker, Kubernetes Source Control: Sapling (Meta's
- custom system), Phabricator, Git
- **Testing & Automation** — Unit Testing: Jest, Enzyme, Cypress Test Automation and Integration Testing
- Performance Optimization and Load Testing
- **Soft Skills & Collaboration** — Agile Development and Scrum methodologies Strong cross-functional team
- collaboration Mentorship and leadership Documentation and technical writing