

# Tristan Phan

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 [github.com/tristanphan](https://github.com/tristanphan)  
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## Education

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**University of California, Irvine** Graduating in June 2025 (expected)

Bachelor of Science in Computer Science, Specializing in Information (GPA: 4.0)

**Relevant Coursework:** Relational Data Management, Next-Generation Search Systems, Machine Learning

## Professional Experience

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**Amazon** | *Software Engineer Intern* **June 2024 – September 2024**

- Architected a full-stack web application to allow feature owners to quickly and safely debut new Alexa app launch shortcuts on Fire TV devices using AWS Lambda, API Gateway, CloudFormation, etc.
- Crafted the website interface using React.js, following HIG principles to achieve a customer-friendly UX
- Reduced product launch time by 30%, improving QA/testing opportunities and minimizing human error
- Designed a roadmap to simplify the system architecture by consolidating legacy services and reducing API calls, ultimately mitigating end-to-end latency by 20% and maintenance/upkeep costs by 35%

**Amazon** | *Software Engineer Intern* **June 2023 – September 2023**

- Outlined and prototyped new features to support the Alexa mobile app as a remote control for smart displays
- Implemented a new device pairing workflow in React Native and adapted the supporting Java Rest APIs
- Utilized Agile/Scrum methodology to collaborate between teams and manage full-stack project complexity
- Managed the code deployment process of 2 legacy services to ensure quality in customer-impacting changes
- Conducted internal A/B test with 15 volunteers to evaluate feature improvements to customer experience

## Projects

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**Cayread** | *Designer & Developer* **August 2023 – Present**

- Created and documented a cross-platform e-book reader, written using the Flutter API in Dart
- Built a specification-compliant XML parser to adapt EPUB packages into a renderable mobile-friendly UI
- Leveraged Wiktionary API to allow readers to define and translate words or phrases while reading in the app
- Project Code: [github.com/tristanphan/cayread](https://github.com/tristanphan/cayread)

**FrameGrab** | *Maintainer* **June 2021 – Present**

- Constructed a Chrome extension to capture, save, and share frames from online videos and livestreams
- Utilized the WebExtension API to extract stream data from HTML video elements into PNG images
- Published to the [Chrome Web Store](#) with 250+ weekly users, receiving a featured badge
- Project Code: [github.com/tristanphan/framegrab](https://github.com/tristanphan/framegrab)

**Activ8** | *Project Lead & Front-end Developer* **January 2024 – March 2024**

- Orchestrated a team of 3 developers to create a full-stack health logger and recommendation system for iOS
- Illustrated system architecture diagrams and documented Rest API schemas (both available on [GitHub](#))
- Designed feedback-driven UI/UX using Flutter API for frictionless navigation and an appealing style
- Project Code: [github.com/activ8-health/app](https://github.com/activ8-health/app)

## Technical Skills

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**Languages:** Python, Java, JavaScript, TypeScript, HTML & CSS, Unix/Linux Shell, C, C++, SQL

**Frameworks & Tools:** AWS Cloud Computing, React JS & React Native, Flutter, Docker, Git VCS