

Thamil Murugesan

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SUMMARY

- Senior Software Engineer with 9+ years of experience in frontend and mobile development focused on building scalable web and mobile applications. Proficient in TypeScript with expertise in frameworks and tools such as React, Angular, Node.js, React Native, Ionic, AWS DynamoDB, AEM, AWS, and OKTA.
- Experienced in leveraging DevOps tools such as Docker, AWS, and CI/CD pipelines to enhance development and deployment efficiency. Strong domain knowledge in Fintech, Retail, and Digital Workplace Collaboration, with a proven track record of delivering high-quality solutions in both startup and enterprise environments.
- Skilled in Agile and Waterfall methodologies, ensuring seamless adaptation to diverse workflows and project needs.

SKILLS

Frontend: ReactJS, Angular, AngularJS, Redux

Mobile: React Native, Ionic, Capacitor

Styling: CSS, SASS, Styled Components, Bootstrap, Material UI

Backend: Node.js, Classic ASP

Database: AWS Dynamo DB

CMS: Adobe Experience Manager (AEM), Netlify CMS

Identity: OKTA, OAuth 2.0, SAML

Monitoring: Datadog, Sentry

DevOps: GitHub Actions, Jenkins, GitLab CI/CD, Docker

Testing: Cypress, Playwright, Puppeteer, Jest

Cloud: AWS (EC2, S3, Lambda, DynamoDB, EventBridge)

EXPERIENCE

OFX, Sydney - Senior Software Engineer

Jun 2021 - Present

OFX is a cross-border forex and accounts payable platform. I played a key role in several initiatives, including developing the Bills Platform, integrating Xero and QuickBooks accounting systems into the new client platform, and implementing the OKTA Identity Management Solution across various web and mobile applications within the organization.

- **Frontend Framework Development:** Led the establishment of a frontend framework for a new client platform, ensuring scalability and maintainability.
- **Feature Development:** Delivered key features in the Accounts Payable domain, including Bills and Payments, enhancing customer usability and efficiency, and also played a key role in implementing accounting integration such as Xero.

- **Identity Management:** Designed and implemented the OKTA Identity Solution from scratch, integrating with existing IdentityServer 4 across web and mobile platforms in a co-existence mode.
- **Custom Authentication Screens:** Developed React Native-based mobile app screens for login, password management, MFA, and other authentication flows using Redux, Sagas, and built-in-house npm component packages.
- **Reusable Components:** Created reusable components, showcased them in Storybook, and published them as npm packages in GitHub, streamlining development and ensuring design consistency.
- **Customer Onboarding Improvements:** Developed business functionalities for web and mobile apps to enhance customer onboarding experiences.
- **AWS Integration:** Built multiple AWS Lambda functions to facilitate syncing tasks between legacy systems and OKTA.
- **API Enhancements:** Modified existing APIs to support OKTA-generated JWT access tokens, enabling secure authentication.
- **CI/CD Pipelines:** Established deployment pipelines using GitHub Actions and integrated logging solutions such as CloudWatch, Datadog (web apps), and Sentry (mobile apps).
- **Feature Flags:** Implemented LaunchDarkly feature flags for mobile and web applications to enable controlled rollouts.
- **Cross-Team Collaboration:** Coordinated with multiple teams to enable their APIs to support OKTA-generated JWT tokens.
- **Mentorship and Leadership:** Provided guidance and mentorship to junior engineers, fostering professional growth.
- **Testing Automation:** Implemented automation testing in the pipeline using Cypress to validate customer journeys, improve product quality, and test key flows.
- **Community and Culture:** Organized engineering guilds and hackathons, promoting learning and cross-team collaboration.
- **Agile Practices:** Facilitated Agile ceremonies, including sprint reviews and retrospectives, in a new working model we tried as a team in the absence of the Scrum Master.
- **Tech Stack:** React, React-native, NodeJS, Classic ASP, AWS DynamoDB, , LaunchDarkly, Cypress, Sentry, OKTA, Postman, Datadog, Github actions, Pulumi and AWS

WooliesX, Sydney — Senior Software Engineer(TCS)

Nov 2019 - Jun 2021

Rewards is a loyalty portal offered by Woolworths Group in Australia. The project involves developing various business features and migrating from AngularJS to Angular 9.

- **Frontend Development:** Managed and enhanced the frontend architecture of the woolworthsrewards.com.au website using Angular 9, ensuring seamless functionality and user experience.
- **Loyalty Portal Migration:** Spearheaded the migration from AngularJS to Angular 9, achieving a non-breaking, iterative transition while maintaining high availability.
- **Reusable Components:** Developed reusable Angular components to integrate seamlessly with AEM (Adobe Experience Manager) content, optimizing development efficiency.
- **Headless CMS Implementation:** Designed and implemented a headless CMS approach from scratch using AEM Content Fragments, enabling dynamic and flexible content management.
- **Design Systems and Storybooks:** Built internal design systems and maintained **Storybook libraries**, ensuring consistent UI across teams and projects.
- **AEM Development:** Created and managed AEM components using HTL, integrating them with APIs and Angular applications, and handled Digital Asset Management (DAM).
- **Deployment Management:** Managed deployment processes using Jenkins and integrated with AEM to streamline content delivery.
- **Agile Collaboration:** Participated actively in Agile ceremonies, including sprint planning, retrospectives, and technical chapter discussions to align development with business goals.

- **Stakeholder Communication:** Provided solution designs and demonstrations to stakeholders, ensuring alignment with project objectives and technical feasibility.
- **Tech Stack:** Angular 9, AngularJS, AEM, HTL, SASS, DAM, GitHub, Content Fragments, Jenkins

TCS, India — Software Engineer

Aug 2015 - Nov 2019

Worked on multiple projects across fintech and workplace collaboration domains. Mainly worked on a team to create an entire suite of workplace collaboration tools that are utilized by 600k+ employees of TCS and other external vendors and many of TCS's clients. Key responsibilities include developing mobile and web applications using Angular, React, Reactnative, and Ionic.

GOIT Challenge (April 2019 – November 2019)

- Developed mobile apps for STEM learning and quiz contests for school students in Australia.
- Built and deployed the application to the App Store and Play Store using Ionic Studio and Firebase.
- Designed APIs with Firebase and ensured production readiness using BrowserStack testing.
- Tech Stack: Ionic, Cordova, Firebase, Angular 7, GitLab, Ionic Studio

Fresco Learn (February 2019 – April 2019)

- Led a team of 3 developers to deliver gamified mobile and web learning applications with a CMS for course management.
- Collaborated with business teams to define requirements, created user stories, and managed Agile development processes.
- Designed and implemented responsive UIs and integrated analytics using libraries like Chartist and UnderscoreJS.
- Tech Stack: Angular 7, Ionic, UnderscoreJS, chartist, HTML5, Git, Jenkins, Bootstrap

Fresco Docs (January 2018 – January 2019)

- Developed a document storing and sharing platform similar to Dropbox, with ReactJS for the web and React Native for mobile.
- Led end-to-end development and implemented SAML authentication protocols.
- Worked along with backend teams for API development using NodeJS
- Tech Stack: Angular 2, React Native, NodeJS, Bootstrap, Sass, Grunt, Git, Jenkins, Bower, Swagger, Postman

Fresco Talk (June 2016 – December 2017)

- Built a messaging platform similar to Teams/Slack using React/Redux.
- Created reusable components and optimized UI performance by experimenting with libraries.
- Documented project solutions and workflows in Confluence.
- Tech Stack: React, Redux, Styled Components, Sagas, Webpack, Git, Jenkins, Material UI, Puppeteer

Fresco Apps (April 2016 – June 2016)

- Developed a static website for an enterprise app store similar to the Play Store.
- Collaborated with cross-functional teams to host applications on AWS S3.
- Tech Stack: AngularJS, HTML5, S3, Sass, Bootstrap, Grunt, Git, Jenkins, Bower

CitiPlanner - Citibank (August 2015 – April 2016)

- Developed the UI for Citibank's wealth management application enabling portfolio management and investment tracking.
- Supported front-end application tickets and implemented HTML, CSS, and JQuery solutions.
- Tech Stack: HTML, CSS, Bootstrap, JQuery, Javascript, UNIX, ServiceNow

EDUCATION

B.Tech-Information Technology— Pondicherry University, India

Aug 2011 - May 2015

Score: 8.6/10

AWARDS AND RECOGNITION

- Outstanding Employee Award (2021-2022) — OFX
- Best team award for Hackathon organizing — OFX
- Multiple TCS Awards for Excellence in Delivery
- Published two international IEEE research papers on Cloud Security