Nathaniel Angelo Calimag

Singaporean Software Engineer (Full Stack)

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EDUCATION

National University of Singapore   Aug 2022 – Jun 2026 (expected)

Bachelor of Computing in Computer Science (Cumulative GPA: 4.81 / 5.00)

- Teaching assistant for CS1010X Programming Methodology (AY2022/2023, Sem 2)

WORK EXPERIENCE

Full Stack Developer Intern - *Computing for Voluntary Welfare Organisations (CVWO)*   May 2023 – Aug 2023

- Collaborated with 5 developers in a key project sponsored by GIC to build IT systems for major VWOs
- Upgraded a multi-tenancy system using Golang, GORM, PostgreSQL, React and Redux Thunk to improve operational efficiency for **400+ social workers** from 13 eldercare centres, projected to expand to 220+ centres
- Pioneered a low-code 'Custom Reports' solution, **slashing clients' audit report generation time by 85%** and empowering sysadmins to rapidly build interactive and dynamic reports through a secure SQL query interface
- Integrated Attribute-Based Access Control into custom reports, providing granular permissions settings
- Migrated over 60 enums into tenant-specific databases, paving the way for future centre-based customization
- Developed an admin dashboard, streamlining management across centres and tenants for clients and sysadmins
- Decoupled the sysadmin and user admin dashboards into distinct tenants to enhance data isolation and security

Web Developer Intern - *Works.so*   Feb 2022 – May 2022

- Works.so is a startup that employs AI and Web3 technology to enable clients to hire remote talent on-demand
- Built responsive landing pages with TypeScript, Angular, SCSS & ChartJS from UI/UX wireframes.
- Programmed REST API for application system to let users submit applications with Node.js, Express and MongoDB, and built the respective frontend application flow with RxJS and Reactive Forms.
- Implemented user profile/settings backend functionality and web interfaces with Firebase authentication, email OTP verification, form validations, and error handling.
- Utilised Amazon Web Services S3 for image and file uploads to allow users to update profiles/applications.
- Developed admin features to allow admins to list, view and update user applications assigned to them.

Teaching Intern (Physics and Mathematics) - *Ministry of Education*   Jan 2020 – Mar 2020

Ping Yi Secondary School

- Planned and conducted several lessons for lower secondary students, and supported lessons for other teachers.
- Led a team of students to organise and run school activities for events such as Total Defence Day.

PROJECT EXPERIENCE

SGUniStats - *Vue*   Sep 2021

https://sgunistats.com

- Designed UI / UX and developed a responsive, interactive web application with JavaScript and Vue.
- Achieved **first Google search result** for 30+ search terms (such as *IGP calculator, rank point calculator*).
- Managed SEO to achieve over **30,000 Google clicks** and **200,000 search impressions** in the **first 6 months**.
- Integrated Google Adsense to generate profits, resulting in a peak revenue of **$75 in one day** and over 250,000 advertisement impressions in the first 6 months.
- Incorporated Tailwind CSS to produce accessible and modern visuals for both mobile and desktop devices.

Personal Website - *React and Next.js*   Nov 2021

https://nathanielcalimag.com

- Utilised static site generation with Next.js for better SEO support through greater search engine visibility.

SKILLS

Frontend: React • Next.js • Angular • Vue 3 • TypeScript • JavaScript • Redux • SCSS • CSS3 • HTML5
Backend: Golang • NodeJS • PostgreSQL • MongoDB • ExpressJS • GORM
Other: Java • Python • Git • GitHub • TailwindCSS • MaterialUI • Formik