Suwaphit Buabuthr

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Full-stack engineer with 10+ years of experience developing scalable web platforms and developer-tools infrastructure in React, TypeScript, Python, and modern CSS frameworks (SASS, Tailwind). Proven track record improving build reliability, CI/CD automation, and engineering productivity for large-scale systems. Skilled in designing reusable component libraries, observability dashboards, and automated testing pipelines that accelerate delivery across distributed teams.

PROFESSIONAL EXPERIENCE

DallasNews Corporation, Dallas, Texas

Senior Full Stack Developer   *November 2021 - Present*
- Built and optimized full-stack applications using React, TypeScript, Node.js, and PostgreSQL with modular architecture, code splitting, and caching for scalability and maintainability.
- Led development of a dynamic paywall and optimized checkout system, increasing conversion by 22% and completion by 15%.
- Improved frontend performance and responsive design using HTML5, CSS3, SASS, and Lighthouse metrics (CLS, LCP, FID); automated builds with Webpack and Gulp.
- Automated CMS workflows with Node.js and Python services for metadata extraction and feed generation, cutting manual publishing time by 40%.
- Deployed and monitored AWS ECS and Lambda services on Linux environments with Docker, CloudFront, and GitHub Actions, ensuring zero-downtime releases.
- Mentored developers on React architecture, Playwright and Jest testing, and Git best practices, improving delivery speed and code quality.

I GEAR GEEK co., ltd., Chiangmai, Thailand

Data Engineer   *May 2020 – March 2021*
- Built automated ETL workflows across AWS, MongoDB, and MySQL, improving data quality and cutting manual processing time.
- Delivered reliable datasets that enhanced campaign targeting and analytics accuracy.
- Strengthened cloud and database infrastructure, improving pipeline reliability and supporting large-scale reporting.

Provincial Electricity Authority, Bangkok, Thailand

Full Stack Developer II   *July 2016 – July 2019*
- Improved payment processing reliability for 20M+ customers by developing and automating integration tests with REST/SOAP services using C#, PHP (Laravel), Python, and Selenium.
- Designed and optimized PL/SQL stored procedures and Oracle scripts, ensuring accurate, high-volume data feeds across multiple enterprise systems.
- Built responsive web and mobile UIs to track energy consumption in real time, enabling millions of users to monitor and manage energy usage.
- Provided post-implementation support and troubleshooting, reducing downtime and increasing adoption of customer-facing platforms.

THiNKNET co., ltd, Bangkok, Thailand

Senior Software Engineer   *July 2014 – June 2016*
- Built and maintained JobThai.com web and mobile applications using Laravel and React Native, serving millions of users.
- Integrated Elasticsearch to boost large-scale search accuracy and query speed across millions of job listings.
- Designed and deployed MapMagic API using 2M + geospatial records and OpenStreetMap for scalable mapping and analytics.
- Collaborated in Agile teams to improve release efficiency, API reliability, and code maintainability through reusable components and CI/CD practices.

EDUCATION

- **Texas Tech University**, Lubbock, Texas, USA   Graduation Date: December 2020
  Master of Science in Computer Science   **GPA: 3.33**
- **King Mongkut's University of Technology Thonburi (KMUTT)**, Bangkok, Thailand   Graduation Date: June 2014
  Bachelor of Engineering in Computer Engineering   Second class Honors **GPA: 3.33**
  Additional Education: M.S. in Technopreneurship (Institute of Field Robotics), KMUTT   (Sep 2018)   **GPA: 3.75**
      B.B.A. in Marketing, Sukhothai Thammathirat Open University   (Nov 2017)

ADDITIONAL EXPERIENCE

- **Texas Home Health Hospice**, Lubbock, Texas, IT Support Administrator | July 2021 – March 2022
- **Advanced Data Wireless Network**, Bangkok, Thailand, Data Analyst Intern | August 2013 – January 2014
- **Advance Info Service PCL.**, Bangkok, Thailand, Software Engineering Intern | June 2013 – August 2013
- **Freelance Tutor**, Bangkok, Thailand | January 2012 – September 2013

SKILLS/AWARDS

- **Technical Skills**
  - **Frontend:** React, TypeScript, JavaScript (ES6+), HTML5, CSS3, SASS/SCSS, Tailwind, Bootstrap, Figma
  - **Backend:** Node.js, Express.js, Python, Django, PHP (Laravel), GraphQL (Apollo)
  - **Testing**: Jest, Playwright, Selenium, CircleCI, Automated Regression Testing
  - **Cloud and DevOps:** AWS (ECS, Lambda, S3, CloudFront), Docker, GitHub Actions, CI/CD Pipelines
  - **Design Systems and Collaboration**: Component Libraries, Design Tokens, Figma Developer Mode, Agile / Scrum
  - **Databases**: PostgreSQL, MySQL, MongoDB, Oracle, PL/SQL
- **Licenses & certifications**
  - [Selenium](#)
  - [Test Automation Foundations](#)
  - Google Analytics 4 (GA4) Certification: [Data Analysis](#), [Reporting](#), and [Integration](#)
- **Honor and Awards**
  - **J.T. and Margaret Talkington Graduate Fellowship** (2019 – Present), Texas Tech University, USA
  - **Petchra Prajomklao Graduate Scholarship** (2015-2017), King Mongkut's University of Technology Thonburi, Thailand
  - **Consolation Prize in Young Technopreneur Innovative Business Plan Development Competition** (2018)
    by SAMART Group and The National Science and Technology Development Agency (NSTDA), Thailand

PROJECTS

- **WhisPR (Internal PR/Jira Automation Tool)**   2025

Developed a React + Node.js tool integrating GitHub PRs with Jira tickets to auto-generate descriptions, QA instructions, and regression reports. Improved release documentation speed by 40 %.

- **On Simulating Energy Consumption of Federated Learning Systems Simulate**   2020

Simulated energy and time consumption of federated edge learning systems using NOMA transmission protocols in MATLAB. Analyzed trade-offs to improve efficiency of distributed AI workloads.

- **Discovering Fake Driver Based on Temporal Driving Behaviors**   2020

Built classification models and optimized data pipelines, demonstrating proficiency in large-scale feature extraction and pattern recognition.

- **Face-masked recognition model**   2020.

Augmented the Labeled Faces in the Wild (LFW) dataset with simulated face-mask images to address the challenge of masked face recognition during COVID-19. Built and tested a computer vision model that improved robustness against facial occlusions, advancing research into more reliable recognition systems.

- **Power Consumption Observation on Mobile web application**   2019
Developed a React Native mobile application framework to measure and analyze real-time power consumption across mobile websites and devices. Implemented background data collection, local caching, and visualization features to assess battery usage patterns. Applied machine-learning models to predict browsing behavior and identify privacy-related risks, advancing research into energy-efficient, high-performance mobile experiences.

- **Development of Logistics Evaluation System for Industrial Thailand Performance**   2018
Created a decision-support system using causal loop modeling to evaluate Thailand's **Logistics Performance Indexes (LPIs)**. Research outcomes provided insights for policymakers and were applied as guidelines to enhance national industrial logistics performance.

- **UX/UI Development of learning management system on Mobile**   2014
Collaborated with faculty, staff, and students in the computer engineering department to design and implement a mobile learning management system (LMS) interface. Created wireframes, paper prototypes, and graphics using Balsamiq and Sketch, delivering a user-tested design that improved usability and accessibility.

INVOLVEMENT

- **Computer Club**, King Mongkut's University of Technology Thonburi (KMUTT)
*Coordinator (*2010 – 2014)
Organized Android developer camp in collaboration with Google Developer Groups (GDG) Bangmod and the Engineering Department.

- **2B-KMUTT University Research Camp for Engineering, Science, and Art**, KMUTT
Senior Consultant (2011-2012)
  - Coordinated university research camp operations, managing services for 180+ members and supporting research lab resources and sponsorships.

  *Food and Safety Service Director (20*09-2010*)*
  - Managed dining services and nursing facilities to more than 180 members in camp.
  - Coordinated Admissions and Recruitment Office to provide a proper resource in each research lab.