

GRACE TENG

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EXPERIENCE

Consultant Developer

Jun 2021 – July 2024

Thoughtworks

Singapore

Client: Government Agency

- Built password authentication system for an OAuth2/OIDC-compliant identity provider using Spring Boot, MySQL, and AWS CloudHSM to replace critical third-party authentication system reaching end-of-life (EOL)
- Successfully cut over to newly-built service and decommissioned EOL system with no service disruption
- Identified security flaw allowing malicious actors to perform account takeover using a man-in-the-middle attack
- Delivered demo of OTP authentication service using AWS serverless platforms (Lambda/Node.js, DynamoDB, S3)
- Created Lambda proxy in front of existing Spring Boot password microservice to prepare for serverless migration
- Crafted responsive user interfaces in Next.js, deployed as microfrontends using Webpack module federation
- Hosted internal knowledge-sharing sessions on cryptography for both technical and non-technical audiences

Client: Social Impact Organization

- Advised non-profit organization on implementing test-driven development (TDD) for mobile educational game
- Evaluated existing test code to identify potential areas of improvement in testing strategy
- Created proof-of-concept test framework for GameMaker Language to demonstrate TDD using client's stack

Client: Social Impact Organization

- Developed gamification features for mobile app with Django backend to encourage underprivileged students to read
- Migrated hosted reading resources from AWS EC2 to S3 to improve access control and scalability
- Set up monitoring with StatusCake to track website and API uptime

Business-As-Usual Activities

- Conducted pair programming interviews using test-driven development for entry- to mid-level software development roles in JavaScript, Python, and Ruby

Teaching and Learning Practicum

May 2022 – Aug 2022

CIT 593 Introduction to Computer Systems, University of Pennsylvania

Online

- Hosted weekly office hours and led recitations to guide students through course material ranging from binary representation, logic gates, and computer architecture, to machine language, assembly, and C
- Graded student assignments and exams, writing detailed feedback to highlight and correct errors in understanding

Teaching Assistant

Oct 2020 – Jun 2021

Le Wagon Coding Bootcamp

Singapore

- Guided web development students through technical challenges, ranging from simple command-line applications to implementing WebSocket-based chat and notifications systems with Ruby on Rails
- Reinforced students' understanding of software development concepts and design patterns

EDUCATION AND TRAINING

University of Pennsylvania, School of Engineering and Applied Sciences

Jan 2021 – Aug 2024

Master of Computer and Information Technology

New York University, Tisch School of the Arts

Sep 2010 – May 2014

Bachelor of Fine Arts in Film and Television Production

CERTIFICATIONS

AWS Certified Solutions Architect – Associate

Mar 2024 – Mar 2027

Validation number: 98ad1980906e4378b194b6814cc0aa1d

TECHNICAL SKILLS

Languages and markup: Java, JavaScript, TypeScript, Python, Ruby, C, SQL, HTML, CSS

Frameworks: Spring Boot, React, Next.js, Serverless Framework, Express.js, Ruby on Rails, Django

Testing: JUnit, Mockito, WireMock, Jest, React Testing Library, Mountebank, pytest, rspec, Gauge

Infrastructure and deployment: Docker, Kubernetes, Helm, Istio, Webpack, GitLab CI, GoCD

AWS: Lambda, API Gateway, DynamoDB, S3, CloudFront, Route 53, EKS, EC2, RDS, ElastiCache, CloudHSM