Szu Kai Yang

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Employment

Software Engineer II   **LEVEL INC**   **Nov 2023 - Jan 2024**

Purchase System Engineer

- Engineered a new gRPC endpoint to retrieve coverage data upon completing transactions, reducing latency by 100ms.
- Implemented append-only change logging to effectively track modifications in legal matters, ensuring comprehensive audit trails for compliance purposes.
- Constructed a new benefits product type in the Product Service, expanding offerings to include support for a new pre-tax product, enhancing financial planning options for users.
- Technologies: Go (Golang); AWS (Amazon Web Services) ; Grpc/protobuf; SQL; Kubernetes

Software Engineer II   **Expedia Group**   **Jun 2020 - Oct 2023**

Payment System Engineer

- Implemented optimization strategies in the Expedia payment database deployed in AWS, resulting in a 6% reduction in monthly costs.
- Collaborated with multiple teams to develop a new Payment Gateway API, improving transaction processing efficiency.
- Implemented Kubernetes integration in the Payment Integrator system, enabling the company to scale and handle 3x the traffic.
- Assisted the Global Payment Team in migrating services from co-deploy to a developer-centered deployment model, reducing deployment time by 40%.
- Technologies: Java; Spring; AWS (Amazon Web Services); Kubernetes; RESTful API

Software Engineer Intern   **Expedia Group**   **May 2019 - Aug 2019**

Site Reliability Team

- Developed and designed a customer-facing API service status page and management page for Expedia Partner Solutions, enhancing the page's reliability and performance by leveraging infrastructure on Amazon Web Services (AWS) using AWS CloudFormation and other services.
- Integrated Expedia's travel agent price calculation API with AWS services, significantly reducing latency and improving reliability for customers. Generated cost savings of $18,000 for the company.

Education

- **M.S. in Computer Science, Purdue University, IN**   **Aug 2018 - May 2020**
- **B.S. in Computer Information Technology, Purdue University, IN**   **Aug 2014 - May 2018**

Technical Experience

Projects

- **Simpson Image Recognition and AI Generation** (2018).
  Built and trained Deep Convolutional Generative Adversarial Network and Boundary Equilibrium Generative Adversarial Network for generating new Simpsons character. Python, Pytorch, Generated AI
- **CERIAS Benedor TSE Bank Mobile Payment** (2017).
  Developed behavior-based and regression testing script in Python for 12 RESTful APIs. Succeeded with an extend of sponsorship from CERIAS partner. Python

Certificate

- **Machine Learning by Stanford University on Coursera (2018)**

Skills

- Java; GO; SQL; MySQL Python; gRPC; RESTful; Spring Boot; Django;
- AWS; Kubernetes; JUnit; Docker; Git; JWT;