# **CHIEH SHIH**

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## **Professional Experience**

BNY Jersey City, USA

Senior Associate Full-Stack Engineer

May 2023 - present

- Led the design and development of an enterprise-wide Account Management System for 100k+ users, built with Java, JavaScript, Spring Boot, Angular, and a containerized architecture using Docker and Kubernetes. Integrated Oracle DB, Postgres, MongoDB, LDAP, and Active Directory, reducing manual account management workload by 85%.
- Collaborated with Broadcom team to design and optimize the Privileged Access Management with Java RESTful APIs, enforcing compliant, least-privilege access. Enhanced Splunk monitoring reduced unauthorized access and production change risk by 95%.
- Mentored junior developers and led the migration of an on-premise infrastructure to a SaaS solution, improving system uptime by 99.9% and cutting infrastructure costs by 55% while enhancing scalability, reliability, and system resilience.
- Utilized **AI Tools**, including **GitHub Copilot** and **Cursor**, to **modularize repetitive operational tasks into automated tools**, enhancing workflow efficiency and **saving** each operations team approximately **17 hours per week**.
- Utilize **GitLab** to set up and manage **CI/CD** pipelines, integrating monitoring tools such as **Grafana** to ensure continuous delivery, real-time performance insights, and improved stability in development and production environments.

BNY
Remote in New York, USA
Full-Stack Engineer
Apr 2021 - Apr 2023

- Spearheaded the modernization of the legacy eServices with Typescript, React and Node.js, leveraging Docker for streamlined containerization and deployment. Integrated Splunk for centralized logging and Grafana for real-time performance monitoring, achieving a 45% reduction in UI response time for external client credential management.
- Implemented robust **authentication & authorization** mechanisms using **Java** and **Spring Security**, enhancing platform security and compliance with **banking industry regulations**.
- Designed and implemented Java-based intelligent automated daily batch jobs to integrate HR system data, enabling seamless onboarding and permission provisioning for 100k+ global BNY Mellon employees and clients. Reduced manual HR workload by 70%, saving thousands of hours annually while ensuring secure, consistent access.

ECARD Inc.New York, USASoftware EngineerOct 2019 - May 2020

- Automated background checks by implementing the LexisNexis API within a React and Node.js-based platform, boosting the ECARD debit card application rate by about 400% (from 500 to 2.5K users) within two months.
- Developed and enhanced partner-facing application features with **RESTful APIs** integrating **ORM** and leveraged **Python for data analysis and report automation,** enabling the marketing team to identify applicant demographics and **increasing** third-party partner-driven **applications by 55%**.
- Optimized Postgres database queries and indexing to improve data retrieval efficiency and support scaled application loads.

## **BioCampLab - Kaohsiung Medical University**

Kaohsiung, Taiwan

Research Assistant - Full Stack Developer

Oct 2015 - Mar 2017

- Leveraged machine learning with Weka algorithms to build a QSAR model predicting biological activity of chemical compounds, supporting research with R for data preprocessing, Go for API development, and JavaScript for interactive visualization.
- Developed and launched <a href="SkinSensDB">SkinSensDB</a>, an interactive platform, **implementing Python scripts for efficient backend data processing and integrating RESTful APIs** to facilitate global collaboration in biological research.

#### **Skills**

Programming Languages: Java, JavaScript, TypeScript, Python, Go, PHP, SQL, HTML/CSS

Frameworks: Spring Boot, Spring Security, Angular, React.js, Node.js, Next.js, Junit, Mockito, Vue.js, Phalcon

Others: Oracle SQL, Postgres, MongoDB, JMeter, Splunk, Kubernetes, Git, GitLab, Docker, AWS, Linux, Apache, Splunk, Grafana

#### **Education**

### **Master of Science in Computer Science**

2019

Stevens Institute of Technology, Hoboken, New Jersey

**Bachelor of Science in Telecommunications Engineering** 

2014

Feng Chia University, Taichung, Taiwan