Vincent Zhang

(347) 579-6056 || vincentzhang4135@gmail.com || portfolio || linkedin || github

EDUCATION

University of Chicago | *Computer Science (B.S) & Mathematics (B.S)* | 3.6 / 4.0   *Sep 2020 - Mar 2024*

Relevant Coursework: Software Dev, Computer Security, Databases, Machine Learning, Computer Architecture, Computer Systems, Data Science, Data Engineering, Statistics, Algorithms, Linear Algebra, Formal Languages

PROFESSIONAL

The Aspen Group   **Chicago, IL**
Backend Engineer (FastAPI, Python, .NET, C#, GCP, SQLAlchemy, Postgres, Kubernetes)   *Dec 2023 - Present*

- Integrated an automatic credit card refund feature handling **$7 million** (25k) refunds a month, streamlining cash department workflow that used to post credit card refunds manually
- Migrated & optimized high usage APIs from .NET monolith to Python microservice, handling **$110 million** worth of payments per month, bringing average endpoint response time from **400ms to 280ms**, and reducing load balancer traffic of monolith by **50%** for payments related endpoints (1000 req/s to 500 req/s)
- Owned and automated a daily asynchronous lockbox payment service that posts **6000 payments** a month–parsing and serializing formatted lockbox files from airflow and posting to RevSpring and Postgres
- Engineered SQL scripts that corrected the write off amounts for **30000** transaction charges, reducing the total Account Receivable by **15%** and significantly reducing the number of insurance related errors on our flagship application

IBM   **New York, NY**
Software Engineer Intern (React.js, Java, Spring Boot, Gradle, MySQL, JUnit, Selenium, Maven)   *Jun 2023 - Sep 2023*

- Heightened functionality of a career interview feature supporting **300k users** & **10,000** calls per minute through implementing frontend modules w/ React.js & backend REST endpoints w/ Java, Gradle, Spring, JUnit
- Boosted user satisfaction rating by ~**27%** by spearheading a bug bash and automating **10+** web Acceptance Tests with **23** pages of documentation using Selenium, Maven, & FitNesse and resolving **15 bugs** for internal career application
- Reduced test data prep time by **50%** by automating scripts that staged user data into test DB with SQL & internal API
- Developed an internal candidate search finder MVP with React and IBM watsonx.ai projected to **save $40k per hire**

Scripted   **New York, NY**
Full Stack Engineer Intern (React.js, Node.js, Express.js, AWS, Docker, Javascript, Python)   *Mar 2022 - Sep 2022*

- Delivered end-to-end a critical intake form w/ **7 interfaces** for **100 pharmacy partners** to responsively record & submit insurance info, save insurance card photos in AWS S3 buckets–writing **4000+** lines in fullstack
- Enhanced new feature that enabled SMS notifications via **Twilio**, allowing pharmacists to do **2 Factor Authentication**
- Wrote bash scripts for Docker CI/CD pipeline that automated **restarting AWS EC2 containers** during deployment
- Engaged in agile scrums & proactively communicated in daily standups & Jira user stories, leading to on-time sprints
- Reduced technical debt through refactoring **10+** large files, documentation (Confluence), and code reviews (Bitbucket)

CSIL   **Chicago, IL**
System Administrator (React.js, Flask, Express.js, Postgres)   *Feb 2022 - Jun 2022*

- Enhanced the UI/UX of internal website calendar by creating Dark Mode & Total Hours tracker w/ React & Flask
- Enabled **30+ users** to securely login and update passwords w/ Express.js and PostgreSQL for a login security feature
- Resolved Linux, environmental, VS Code, R, git, & SSH bugs for customers and managed imaging of **50+** computers

SKILLS

Programming/Markup Languages: Python, Javascript, Java, SQL, C#, C, Rust, HTML/CSS, R, Dart, Bash, Yaml, Json
Frameworks/Libraries: React, Express, Node, Fastapi, .NET, Sqlalchemy, Spring, Postgres, Pandas, Matplotlib, Sklearn
Tools: AWS EC2/Lambdas, GCP, Grafana, Linux, Git, Postman, Docker, Dbeaver, Figma, Jira, Firebase, VSCode, IntelliJ