Shuo Cheng

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EDUCATION

Cornell University
Bachelors of Science, Computer Science. 2012-2016

Stuyvesant H.S '12

EXPERIENCE

Enigma New York, NY   Nov. '17 - curr.
(Systems Engineer + Frontend Engineer)

- Architected and led development of data pipeline application serving hundreds of investigators.
- Built various backend APIs using REST and GraphQL.
- Started off as FE, gradually taking more backend and system responsibilities.
- Created React based interview and conducted FE Interviews.
- Conducted System Design Interviews.

Projects

AMLX V2 | Airflow - Flask - Python - Postgres - Docker - Redis - ELK - Prometheus - Ansible

- Architected and developed replacement data pipeline application replacing opaque incumbent pipeline.
- For most of the project, team was 2 engineers inclusive.
- Shortened case round trip time and implemented process batching, improving throughput compared to older system by 30x on certain case types.
- Replaced complex and custom Bash script based deployment model with Ansible.
- Increased ease of maintenance and transparency with ELK and Prometheus, Grafana and Airflow logging.
- Created 2 month onboarding plan and managed deliverables for new engineers.
- Built garbage collection process allowing system to run with minimal support.
- Led UAT process replacing the old pipeline.
- Project generates $1m arr.

AMLX V1 Support | Docker - Flask - Python - Taskflow - Postgres - Elasticsearch - Redis - Linux

- Triaged, debugged and resolved problems within on-prem environment.
- Used PSQL, Docker logs and various Unix tools to measure file handlers, network traffic, firewall configurations, disk utilization, permissions to arrive at root cause.
- Led on-prem deployments on complex enterprise environment.
- System churned through 150+ cases a day and is depended by hundreds of investigators.
- Upheld guaranteed response times detailed in our SLA ensuring 99% uptime.

User Management Service | Node - Cloudfoundry UAA - Passport.js

- Built user authentication and authorization node service integrating with client's Active Directory single sign-on.
- 100+ active users daily.
- Overall project generated $3m+ ARR with enterprise client.

Dossier | React - Redux - Apollo GraphQL - Node

- Built investigator Search UI and node endpoints and integrations
- Investigator's most direct form of interaction with our application, with thousands of searches per day.
- Overall project generated $3m+ ARR with enterprise client.

Case Management Application | React - Redux - Flask

- Built anti-money laundering case management UI for bank compliance investigators.
- Built case timeline UI supporting comment threads, file uploads, case status changes using React Redux.

Costudio Brooklyn, NY

Aug. '17 - Nov. '17

(Full-stack Engineer) | React - Redux - Apollo GraphQL - Node - Heroku

- Built an event booking application supporting restaurant reservations, seating configurations, menu, drink selections, etc.
- Implemented forms on venue facing application to list venue offerings using Redux forms.
- Created Node endpoints for front facing applications to consume.

Yorango Ithaca, NY

Sep. '16 - April '17

(Full-stack Engineer + PM) | Django - React - Postgres - Heroku

- Helped build property management software for landlords.
- Refactored static Django pages into a React SPA.
- Led standups and sprint planning.
- Created onboarding procedure for new hires.
- Managed landlord relationships.
- Developed company resources demo videos, customer onboarding documentation, user guides.

Microsoft Redmond, WA

June '16 - Aug. '16

(SDE Intern - Tools for Software Engineers) | Azure Datalake - Azure Datafactory - .Net

- Built data pipeline ingesting 1GB+ daily of Github metadata on public repositories.
- Built on Azure Datalake and Azure Datafactory.
- Served 30+ users inside internal analytics department.

Bank of New York Mellon New York, NY

June '15 - Aug. '15

(Technology Intern - Data Governance) | .NET MVC - React

- Built tool auto-generating reports in the Data Governance Desk using .NET MVC.
- Built a simple UI dashboard for the FX desk to monitor certain trades using React.

Tunetap Barrington, RI

June '14 - Aug '14

(Full Stack Developer) | React - jQuery - Ruby on Rails - HTML - CSS - Heroku

- Helped build a concert crowdfunding business.
- Built landing page, infinite scroll, and integrated payments with WePay.
- Trained new engineers on Rails and Git.

PROJECTS

Gene sequence matcher

- Cheng, Shuhua, Giorgio Inghirami, Shuo Cheng, and Wayne Tam. **"Simple deep sequencing-based post-remission MRD surveillance predicts clinical relapse in B-ALL."** Journal of hematology & oncology 11, no. 1 (2018): 105.