Jin Ai Yap

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LANGUAGES & TECHNOLOGIES

Python, Javascript, TypeScript, GraphQL, Kotlin, Java, Ruby, Lisp, Racket, HTML/CSS3/SCSS, PostgreSQL, jQuery, AWS, Flask, Django, SQLAlchemy, Alembic, NumPy, pandas, React, Redux-thunk, XState, MobX, MaterialUI, Jekyll, Pytest, Cypress, Jest, Ruby on Rails, Postgres, SQLServer, Temporal, Docker, Celery, next.js, Terraform

WORK EXPERIENCE

Software Engineer   *2020 – Present*
Curative: rapidly scaling testing and vaccinations for coronavirus

- Reduced considerable tech debt: refactored the entire API and automated tests to conform to Flask conventions; streamlined bloated apps
- Improved PCR analysis algorithm central to COVID testing functionality
- Developed new lab software functionality handling Alinity PCR tests to handle growing test volumes
- Audited, patched, and tested for security vulnerabilities in our API; built infrastructure to log and monitor testing anomalies with deeper granularity, providing better quality data for the data team to analyze for efficiency
- Rebuilt complex React signup flow to expand services to include COVID vaccinations; designed automated, end-to-end tests for this flow using Cypress
- Built system to generate PDF test result reports and vaccination cards in Python for patient ease and transparency, and to archive copies in S3 for audits
- Rebuilt tool for scanning tests into the lab and recording USPS tracking numbers with XState
- Helped newcomers find their footing as our team grew from 9 to 30+ members: extensively documented codebase, team culture, and standard protocols; advocated for improvements to our onboarding process, and established a culture of total transparency and disclosure

Software Engineer   *2019 – 2020*
Simple Fractal: tailored RPA solutions

- Led a team speccing, developing, and building a full-stack greenfield coaching portal for an international executive search firm
- Built and tested an extensible Python EHR-parsing bot, recouping $6.2M worth of health insurance payments/copays for national healthcare providers
- Saved healthcare clients $2M/year with AWS Lambda bots automatically posting insurance payments

Chemistry, Calculus, & SAT Tutor   *2017 – 2018*
Competitive Edge Tutoring; Tutor Associates

Organic Chemistry Research Assistant   *2015*
Korea Advanced Institute of Science and Technology

EDUCATION

Yale University (B.A. in Studio Art; GPA 3.82)   *2017*
    Coursework in automata theory, syntax, phonology, synthetic organic chemistry
Polytechnic Institute of NYU   *2011*
    Coursework in linear algebra, differential equations
Ross Mathematics Program   *2010*
    Number theory summer program
Other coursework
- Yale's Discrete Mathematics course
- Sheldon Axler's *Linear Algebra Done Right*
- MITx's "Probability - The Science of Uncertainty and Data"