

JEFFREY WANG

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EDUCATION

The University of Texas at Austin Bachelor of Science and Arts, Computer Science (With Honors) December 2020
Cumulative GPA: 3.85

Notable coursework: Data Structures (Hon), Algorithms, Discrete Math (Hon), Computer Architecture (Hon), Operating Systems (Hon), Artificial Intelligence (Hon), Organizational Behavior (Hon), Linear Algebra, Probability and Statistics, iOS App Development

WORK EXPERIENCE

Microsoft – *Software Engineering Intern*; Seattle, Washington August 2021 – October 2021
Automated budget creation for new teams in Microsoft Finance 365

- Drew data from multiple sources using **Azure Data Explorer (Kusto)** to detect changes to team hierarchies and new spending
- Leveraged Microsoft Email Orchestrator **REST API** to programmatically notify team managers to create or update budgets in Finance 365
- Created **Azure Function** in C#, new **Azure Data Explorer cluster** integrated with **Azure Application Insights** to keep track of notifications sent

Delivering proactive recommendations for optimizing internal Microsoft Azure usage May 2020 – August 2020

- Developed **Azure DevOps CI/CD** pipeline task with **TypeScript** to identify and notify of millions of suboptimal Azure usage cases, runs on **Node.js**
- Wrote integration tests in **Mocha** and created deployment pipeline to publish to Visual Studio Marketplace automatically
- Enabled proactive sharing of cost optimizations to developer teams, saving Microsoft millions of dollars
- Added metrics tracking by creating **custom REST client** to send data to **Azure Application Insights API**, speeding up task execution by 600%
- Worked with multiple Microsoft teams within and outside org to onboard pipeline task to hundreds of teams internally

MyWikis – *Founder and CEO*; McKinney, Texas February 2012 – Present

Wiki hosting service with emphasis on personalization, privacy, and premium features

- Founded wiki hosting company at age 11, company began making profit in 2013, rescued from insolvency by pivoting strategy
- Architected and implemented bespoke **MediaWiki**-based hosting platform on **Docker**, **Kubernetes** scalable to handle tens of thousands of wikis
- Invented Self Service Portal written in **Python FastAPI**, **React** for clients to manage MediaWiki extensions, skins, settings without code
- Migrated wikis' media assets to **AWS S3**, outgoing email to **AWS SES**, and search to an **Elasticsearch** cluster
- Managed, mentored, worked with 3 interns in Summer 2021 to learn software best practices and contribute to efforts listed above
- Provide industry-leading **Enterprise MediaWiki consulting** services with enterprise clients such as ArenaNet, creator of Guild Wars 2

Salesforce – *Software Engineering Intern*; San Francisco, California May 2021 – July 2021

Migration of acquired company's infrastructure to Salesforce Industries Cloud's infrastructure

- Designed, implemented automated password generation and rotation tool in **Java** to change over 120 Salesforce passwords per minute
- Wrote custom **REST API client**, **SOQL** queries for automated password changes, read/wrote credentials from secrets stored in **HashiCorp Vault**
- Created **Jenkins** job in **Groovy** to facilitate scheduled rotations, rewrote Jenkins jobs from using **Bitbucket API** to **GitHub API** and **Vault**
- **Dockerized** and merged two separate **Python** repos into monorepo of apps and modules with **Docker image**, **Docker Compose**, integration tests
- Created automated all-in-one internal Salesforce certificates installation tool in **Bash**, used by multiple projects in Industries Cloud

GoDaddy – *Software Development Engineering Intern*; Seattle, Washington June 2019 – August 2019

Backend API development for world's largest domain registrar and hosting company

- Created and updated customer APIs using **asynchronous Java Vert.x** framework and **Swagger Codegen**
- Deployed existing APIs to production on in-house servers and **AWS**, using **Kubernetes/EKS** and **Docker** via **Jenkins**
- Moved API from using legacy Cassandra database to new **Aurora** database, sped up average processing times for API by 50x
- Implemented encryption on API to store private data, used **AWS Key Management Service** to generate encryption keys
- Hooked up **AWS Kinesis Stream** and **Kinesis Firehose** to **AWS S3** to share data updates with other GoDaddy products

PROJECTS

UNT/UT Dallas Grade Distributions – *Project Lead*; McKinney, TX June 2018 – Present

- Worked with two others to implement in **client-side JavaScript**, **Highcharts**, and **NeDB**, runs on GitHub Pages
- Learned to request information from public universities, import grade distribution data, and convert this data to CSV and **JSON**
- Used by thousands of students to pick good classes for upcoming semesters; featured on UT Dallas student newspaper

ADDITIONAL INFORMATION

Programming Languages:

Proficient in: JavaScript (+ ES6), TypeScript, Python, Java, C, C++, PHP, Swift, Groovy, MySQL, LaTeX; *Experience with:* Kotlin, Verilog, R

Workplace Tools: Excel, Outlook, Slack, Zoom, GitHub, Jira, Confluence, Microsoft Teams, Azure DevOps

Languages: Natively Fluent in Mandarin Chinese, Conversational in French and Hindi/Urdu

Interests: Startups and Entrepreneurship, Asian Culture, Wikis, Learning Foreign Languages, Traveling, History, Current Events

Work Eligibility: U.S. Citizen – Eligible to work in the U.S. with no restrictions