**Gabe De Mesa**

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**Education**

Master of Computer Science January 2023 – December 2024

University of Illinois, Urbana-Champaign

B.S. in Computer Science September 2018 - December 2021

University of California, Irvine

**Work Experience**

**Software Engineer II** October 2022 - May 2024

Bayer, San Francisco CA

Spearheaded a feature-rich web application enabling farmers to enroll over 60,000 acres of farmland into sustainable agriculture leading to over $500,000 of gross profit

* Led React & Vite development efforts to build frontend hundreds of features and components
* Mentored peers on complex problems like deploying to scale to 100,000+ users
* Piloted developer operations with GitHub and GitLab pipelines resulting in saving over 4 hours a day and reducing over 20 tickets of technical debt in the backlog
* Conducted the effort to orchestrate all API calls through a GraphQL orchestration layer thus reducing memory bottlenecks and response times to under 300ms per request

**Software Engineer** January 2021 – October 2022

Bayer, San Francisco CA

Enabled customer support agents to reduce customer response times by more than 80%

* Designed and facilitated using typescript, cypress, yarn, node, and over 100+ other dependencies
* Achieved AWS Cloud Practitioner License and SAFe license with over 100+ hours of training
* Coordinated 100+ instances with AWS & Azure resources with CloudFormation & Terraform
* Developed Java, Maven, Docker, and libraries to handle thousands of requests daily

**Software Engineering Intern** June 2021 – September 2021

Bayer, San Francisco CA

Developed the Internal Tools Portal to combine over 100+ endpoints and deliver a data dashboard for an experimental fungicide

* Managed over 100,000 lines of code for an internal tools-portal
* Piloted with 2 stakeholders and 5 different support agents iterating on user feedback
* Facilitated in React, created hundreds of tests in Cypress, ticketed in Jira, and deployed to Gitlab

**Projects**

**Predicting the Weather**

Incorporated AI and machine learning to predict a 7-day forecast in a given region

* Directed team to instrument metrics like precipitation, min & max temp, and wind to predict rain
* Trained public data with Python to predict with methods like random forests, CNNs, and SVMs

**Pacific States Aviation - Technical Course Outline (TCO)**

Spearheaded from the ground up a comprehensive learning platform to host hundreds of students

* Accelerated transition from 100,000+ pages of paper to online learning experience using Django

**Technical Skills**

* **Programming Languages:** Typescript, Javascript, Python3, C, C++, Assembly, Java, Bash, SQL
* **Software Tools:** Django, NextJS, React, AWS, Git, Gitlab, Linux, Docker, NodeJS, GraphQL
* **Cloud Architecture:** API Gateway, ELB, EC2, S3, IaC, DynamoDB, IAM, Serverless Compute
* **Comfortability:** Frontend, Backend, DevOps, SRE
* **Certifications:** AWS Certified Cloud Practitioner License, iOS CodePath Certification
* **Databases:** MySQL, Postgres, Redis, DynamoDB, MongoDB, Neo4J, Cassandra, Redshift