

Gabe De Mesa

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Education

Master of Computer Science
University of Illinois, Urbana-Champaign

January 2023 – December 2024

B.S. in Computer Science
University of California, Irvine

September 2018 - December 2021

Work Experience

Software Engineer II
Bayer, San Francisco CA

October 2022 - May 2024

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
Bayer, San Francisco CA

January 2021 – October 2022

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
Bayer, San Francisco CA

June 2021 – September 2021

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, SQL, PHP
- **Software Tools:** Django, NextJS, React, AWS, Git, Linux, Docker, NodeJS, GraphQL, Laravel
- **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