

# Chidvi Doddi

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## EDUCATION

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### University of California, Santa Cruz

Santa Cruz, CA

*Bachelor's Degree in Computer Science (GPA: 3.58/4.00)*

*Jun 2022*

- **Relevant Coursework:** Algorithms, Data Structures, Computer Architecture, Machine Learning, Linear Algebra, Discrete Mathematics, Multivariable Calculus and Analytic Geometry, Operating Systems, Introduction to Project Management and Scrum/Agile methodologies, Compiler Construction, Software Development, Distributed Computing

### Georgia Institute of Technology

Atlanta, GA

*Master of Science in Computer Science*

*Jan 2025 - Jan 2027*

- **Relevant Coursework:** Human-Computer Interaction, Mobile & Ubiquitous Computing, EduTech, Digital Health Equity, Cognitive Science, Health Informatics

## TECHNICAL SKILLS

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**Messaging/Streaming Queues:** RabbitMQ, RocketMQ, Kafka, Pulsar

**Batch Processing Tools:** Spark, Hadoop, Flink

**Cloud Advising and Operations:** AWS, Microsoft Azure

**Scripting:** Python Scripting, Shell Scripting

**Configuration Management Tools:** Ansible

**Enterprise Tools:** Slack, Jira, Confluence, Office 365, G Suite, Notion

**Version Control:** Git, GitHub, GitLab

**Continuous Integration Tools:** Jenkins, Github Actions (CI/CD)

**Monitoring/Alerting Solutions:** Datadog, DynaTrace, Grafana (Grafana), Prometheus, Kibana, Zabbix, Humio, Netdata, JMX, New Relic, Splunk (SignalFx), Google Stackdriver, StatsD, Wavefront, Elasticsearch Stack (ELK)

**STaaS tools:** OneDrive, Google Drive, iCloud

**Incident Management Tools:** ServiceNow, BMC Remedy

**Storage Solutions:** NoSQL (MongoDB, Cassandra, DynamoDB), SQL (MySQL, Postgres), Firebase, SQLite, S3, Redshift, Cloud Data Store

**BI/Visualization Tools:** Tableau, PowerBI, AWS QuickSight, Google Data Studio

**Methodologies/Paradigm:** OOP (Object Oriented Programming, Functional programming, Reactive programming, TDD (Test driven development), Multi-threading and parallel programming, Agile/Scrum, SDLC

## WORK EXPERIENCE

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### PG&E

Oakland, CA

*GIS Developer*

*Feb 2025 - Present*

- Executed comprehensive GIS testing protocols for utility infrastructure systems including layer validation, search functionality, and data synchronization across online/offline environments
- Performed quality assurance on ESRI ArcGIS applications ensuring accurate pop-ups, project ID consistency, and field attribution across multiple geographic regions
- Validated spatial data integrity and system point/line counts between source and destination during GIS deployments and system updates
- Implemented automated testing routines for GIS web services using Python scripting and ArcGIS APIs to ensure application reliability for field operations
- Managed enterprise geodatabase testing processes ensuring data accuracy and performance standards for 100+ user base across utility operations
- Coordinated **user acceptance testing (UAT)** for GIS applications across multiple operational regions, validating mapping functionality with field teams
- Troubleshoot GIS application issues providing technical support for mapping, data access, and synchronization problems in production environments
- Performed regression testing on ArcGIS Server deployments and web mapping applications following configuration changes and system updates

- Verified coordinate system accuracy and map projection consistency across different GIS platforms and mobile field mapping applications
- Conducted **offline map** testing procedures to ensure data consistency between environments and resolved synchronization failures through manual intervention

## Fidelity Investments

Santa Clara, CA

Apache Kafka Administrator

Apr 2023 - Oct 2024

- **Environment:** Confluent Cloud, Confluent Kafka, AWS (IAM, EC2, ECS, Glue, Redshift, DynamoDB, Kinesis Data Firehose), Datadog, Control-M
- Build data pipelines with **Kafka Source and sink Connectors** including HDFS sink, Teradata sink, MongoDB sink JDBC source connectors deploy and support Kafka stream processing thru KSQL
- Wrote Kafka Stream applications using **Kafka APIs and Kafka Streams API**
- Creating Data streaming Pipelines using **Amazon Kinesis** to ingest real time data to Amazon S3
- Designed, constructed, and managed the Amazon Web Services data Lake environment including the data ingestion, staging, data quality monitoring, and business modeling
- Expertise in **schema registry, KSQL**, Rest Proxy
- Implemented different data formatter capabilities and publish to multiple Kafka topics
- Used S3 connector to export data from Kafka topics to S3 objects in Avro formats to achieve exactly once delivery semantics to consumers of the S3 objects it produces
- Enrich and filter syslog data with KSQL to detect anomalies in an infrastructure logging stream
- Filter streaming data from an inbound topic with KSQL to exclude records specified by the business team
- Implemented Kafka high level consumers to get data from topic partitions and move into HDFS
- Implemented the new message retry mechanism using Kafka in the event of any failure in the downstream systems
- Participated in all architectural discussions related to enterprise messaging platform
- Set up new Kafka clusters by installing necessary components, ran **performance tests**, set up security, and monitored using knowledge of best practices
- Monitored Kafka performance using **Datadog**
- Performed export and import of data into Amazon AWS S3 from multiple data sources
- Experience in writing and retrieving files to and from AWS S3 bucket for UI to render data faster that involves complex and time-consuming server-side logic
- Developed API for using AWS Lambda to manage the servers and run to code in the AWS
- Loaded data from various data sources into AWS S3 using Kafka
- Built and configured the Kafka clusters on AWS EC2 instances and implement two-way SSL for Authorization for Kafka topics

## Birts Equity & Inclusions Solutions LLC

Santa Clara, CA

Digital Marketing Analyst

Apr 2020 - Aug 2021

- Executed over 15 content marketing strategies, with the most notable being developing and monitoring a content calendar to identify timely and relevant content that initiated courageous conversations about race and diversity and a more cohesive brand identity
- Performed quarterly audits of our brand's website and weekly **Google Analytics** and Adwords data-driven modifications to website content to ensure adherence to best practices for search engine optimization (SEO)
- Designed **email blasts** and promotional material, such as the Systemic Racism and Implicit Bias Guidebook and the Criteria for an Equitable School: Equity Audit, to attract and retain potential and existing clients
- Analyzed follower engagement and interactions using various digital tools, including Appsflyer, Google optimizely, SEMRush, Ahrefs, and Similarweb for SEO; Facebook, Twitter, LinkedIn Ads for social media marketing; and Canva for brand content

## AWARDS AND CERTIFICATIONS

### Certified Scrum Product Owner

Apr 2024

Scrum Alliance

### Certified Scrum Master

Oct 2023

Scrum Alliance

### Advanced Certification in Cloud Computing & DevOps

May 2023

Intellipaat

### Product Analytics Certification

Apr 2023

Pendo

### SimuServe | *Fastapi, Kafka, Celery, SQLite3, Redis, Docker*

Sep 2023

- Developed SimuServe, an advanced microservices-based system that excelled in precise image similarity calculations, efficiently utilizing asynchronous message queues
- Utilized FastAPI to establish a robust backend infrastructure, ensuring high-performance and reliability
- Implemented Celery and Redis to efficiently manage message queues, facilitating smooth and reliable data flow
- Crafted an elegant and user-friendly front-end interface using Streamlit, enhancing user experience
- Conducted load testing with Locust, achieving an exceptional 99.9% response rate within 350ms and consistently handling an average of 46 requests per second
- Fortified data security with JWT token-based authentication while seamlessly integrating Apache Kafka for real-time data monitoring and analytics

### API Data Analysis (Youtube) | *Spark, Kafka, Airflow*

Jun 2023

- Executed complex data imports from diverse sources including HDFS, S3, and YouTube APIs into Spark RDD, seamlessly driving data transformation via Spark SQL, enabling intricate analytical exploration
- Spearheaded the automation and transformation of recurrently incoming S3 files using AWS Lambda, resulting in an impressive 12% reduction in costs by streamlining data handling processes
- Established optimized Hive tables on HDFS/S3 to store Parquet-formatted data, skillfully processed by Spark, and expertly loaded into Redshift for comprehensive analysis and reporting
- Demonstrated proficiency in ETL by seamlessly performing extraction and transformation from a wide array of databases such as Hadoop, Hive, SQL, Oracle, S3, FlatFiles, CSVs, and RESTful APIs, using tools like PLSQL, Python, Unix, Informatica, and orchestrated data loading into Databricks and Redshift
- Architected and constructed intricate data pipelines utilizing Airflow within the AWS ecosystem, employing diverse airflow operators to streamline the flow of data and processes
- Crafted AWS Step Functions orchestrations for automating AWS Glue tasks, efficiently publishing data to S3 and subsequently loading it into Redshift and Databricks, leading to a remarkable 12% cost reduction while optimizing data flow, processing, and storage in line with Kafka-related paradigms

### My Personal Portfolio | *HTML, CSS, JavaScript, BootStrap, GitHub Pages, Git LFS, Google Analytics*

Nov 2022

- Designed and built a portfolio website using HTML, CSS, and JavaScript to combine technical skill with creative flair, offering visitors an immersive experience to explore both my personal and professional facets
- Ensured optimal user engagement across diverse devices by optimizing the interface for both desktop and mobile using BootStrap, offering an inclusive experience that caters to a wide spectrum of users
- Leveraged GitHub Pages for seamless hosting and Git LFS for efficient version control to keep the website up-to-date and easily accessible
- Implemented Google Analytics to track user behavior and gain valuable insights into website performance, allowing for data-driven improvements to enhance the user experience

### URL-shortened | *HTML, CSS, Figma, JavaScript (ES6), Vercel*

Nov 2022

- Created an effective solution for businesses, helping them improve their branding and marketing efforts by providing an easy-to-use URL shortener for their customers
- Engineered an intuitive user interface through Figma, seamlessly translating design into HTML and CSS for a visually engaging experience
- Employed JavaScript ES6 and bit.ly's API to ensure swift, dependable access to shortened URLs, enriching user engagement

### LetsPlayBlackJack | *Python, Java, AWS (EC2, RDS, S3), SQLite3*

Jun 2022

- Simulated the classic casino game, BlackJack, complete with betting dynamics and an AI-driven dealer, elevating gaming experiences
- Created a Discord Bot version that challenges users to think strategically about their bets and decisions by engaging them in a competitive and social atmosphere, where they can interact with other players and share their tactics
- Orchestrated a robust AWS architecture utilizing EC2 for web hosting and RDS for SQL database management
- Ensured only high-quality code was being merged by actively conducting code reviews and analyzing and resolving 10+ possible defects