

# 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:** Kafka (Confluent Kafka, Confluent Cloud)

**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

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

**Incident Management Tools:** ServiceNow, BMC Remedy, Control-M

**Methodologies/Paradigm:** Multi-threading and parallel programming, Agile/Scrum, SDLC

## WORK EXPERIENCE

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### PG&E

Oakland, CA

*GIS Developer/Analyst*

*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
- 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*

- Implemented comprehensive Kafka cluster monitoring using Datadog, tracking broker-level metrics (CPU, memory, disk I/O) and topic-level metrics (partition lag, throughput) across 15+ production clusters, reducing MTTR by 40%
- Managed **P1 incident response** for Kafka cluster outages affecting critical financial trading systems, coordinating with cross-functional teams (InfoSec, Cloud SRE, QE) to restore service within 2-hour SLA requirements
- Performed consumer lag remediation for downstream applications experiencing processing delays, analyzing partition distribution and scaling consumer groups to restore normal throughput
- Troubleshoot connectivity issues between on-premises applications and **Confluent Cloud clusters**, working with network teams to resolve SSL handshake failures and firewall blocking
- Administered Kafka service account onboarding process, conducting governance meetings to review access requests and implementing ACL configurations following principle of least privilege
- Orchestrated rolling Kafka upgrades across production environments, coordinating maintenance windows with application teams and validating broker functionality post-upgrade
- Managed Kafka configuration optimization including **broker-level properties** (log.retention.hours, num.network.threads) and topic configurations (cleanup.policy, compression.type)
- Supported production Kafka Connect deployments including HDFS sink, MongoDB sink, and S3 sink connectors, troubleshooting connector failures and offset management issues
- Conducted load testing scenarios using custom Kafka producers to validate cluster capacity during peak trading hours, identifying optimal partition counts for high-throughput topics
- Managed multi-tenant cluster resource allocation, configuring quotas and throttling policies to prevent noisy neighbor scenarios affecting critical business applications
- Performed capacity planning analysis using historical throughput data, projecting infrastructure requirements for business growth and peak processing scenarios
- Administered shift handover operations using Datadog's centralized monitoring dashboard, ensuring seamless 24/7 coverage and rapid issue escalation for mission-critical financial services infrastructure
- Managed critical incident response workflows through ServiceNow integration, receiving automated alerts for Kafka cluster provisioning issues, AWS instance failures, and infrastructure anomalies requiring immediate remediation
- Managed incident reporting for all production batch job failures through **Control-M ticketing system** (Pulse), implementing phone call escalations within defined SLA timeframes to ensure rapid resolution
- Performed daily batch operations and checklist validations, executing time-critical tasks according to established operational procedures and maintaining production schedule adherence
- Orchestrated job execution and monitoring in production environments, implementing strategic scheduling to ensure successful completion of all batch jobs and report generation processes

## 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