

# Reality Kernel

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## SUMMARY

- Ex-Googler who built global-scale data pipelines for Google Tasks, Docs, and Calendar, and more (impacting billions of interactions)
- Entrepreneurial engineer adept at designing, architecting, and rapidly launching multiple 0-to-1 products with real-world impact
- Versatile problem-solver passionate about tackling tough challenges, delivering results, and aspiring to grow and innovate

## SELECTED PROJECTS (More On [My Github](#))

### Payment Type Predictor

- Initiated, designed, and delivered an ML-driven invoice classification system for ABC Company from concept to deployment
  - **Delivered a 99.99% time reduction:** Transformed a 40-minute-per-line manual process into an automated system capable of batch processing thousands of lines in seconds
  - Recognized by senior leadership as a **groundbreaking productivity boost**, dramatically reducing manual labor and error rates
  - Designed, trained, and optimized machine learning models, achieving 92% accuracy in classifying payment transactions
  - Rapidly designed and built a Flask web app, enabling non-technical users to easily process individual entries and batch uploads

## SELECTED WORK EXPERIENCE

### Software Engineer III – [\[Google\]](#)

May 2022 – May 2023

Team: Data Integrity - Safeguarded data consistency for billions of Google Apps records (Docs, Tasks, Calendar, Labels, etc.)

- Delivered high-impact, global-scale data solutions for clients with high customer satisfaction
  - Delivered data validation pipelines processing 20B+ records, identifying and resolving 400K+ integrity issues across applications
  - Initiated investigation on client-side data handling practices, adapting data reading strategies to meet diverse global data policies
  - Led, designed, and implemented solutions for client-side data corruption, resolving root causes and cutting errors by 50%
- Significantly reduced on-call burden and enhanced infrastructure reliability
  - Designed and built a monitoring system that cut anomaly detection and response times by 80%, minimizing manual investigation

### Founder, Software Engineer – [\[Various Startups, Pivoting Involved\]](#)

Feb 2023 – July 2024

- Led rapid development and launch of scalable, production-grade web and mobile applications from scratch
  - Consistently delivered 3 fully-functional MVPs within 3 to 6 weeks, followed by iterative improvements and new features
  - Architected, designed, and built a memorial page platform using ReactJS (frontend), Django (backend), and MySQL (database)
  - Designed complete database schema, robust APIs, and secure user authentication systems; optimized server performance
  - Launched a full-stack pet social media mobile app (React Native, Django, MySQL), driving 50+ organic sign-ups within 4 weeks
- Drove user engagement and retention by 30% in 2 weeks by integrating email automation and advanced user behavior analytics
- Conducted solid market research, and 120+ user interviews to validate ideas, gather feedback, and refine product iterations
- Learned and applied the counter-intuitive *Mom Test* to client interviews, uncover hidden pain points, and validate genuine impact

### Software Engineer – [\[Freelance\]](#)

Aug 2020 – Feb 2022

- Led the design and implementation of a full-stack, production-level authentication system and an employee management system
- Led and optimized project workflows and architecture, initiated and built a full-stack ML Readiness Survey for XXXX Group
- Designed and implemented web applications for social network analysis at XYZZ (Vue frontend, Flask backend, AWS Amplify)
- Led, initiated, and delivered high-impact solutions across various business and research projects, including:
  - APIs for deepfake face-swapping research, agent-based economic simulations, COVID global policy data scraping, and more

### Software Engineer – [\[Foo, Inc.\]](#)

Mar 2020 – Aug 2020

- Designed and developed full-stack tools for the sales team to automate user access management, reducing time cost by 90%
- Designed and built fully automated issue resolution, eliminating manual fixes and seamlessly resolving over 5,000 on-call incidents
- Built web crawlers to fetch data from 5M forum posts; trained NLP classifiers to rate products, deliver actionable insights to clients

### Deep Learning Researcher – [\[XXXX Research Lab\]](#)

Jun 2017 – Oct 2017

- Enhanced Convolutional Neural Network interpretability by implementing "mask" layers, transforming high-layer filters to automatically represent distinct object parts with 92.3% accuracy
- Designed and implemented APIs to label and preprocess over 50K training images, streamlining and accelerating data preparation

### Software Developer – [\[XYZ Company\]](#)

May 2018 – Nov 2018

## EDUCATION

University of California, Los Angeles B.S. in Computational Mathematics

Sep 2015 – June 2019