MICHAEL THOMAS DEFELICE

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SKILLS: Data Science, Product Incubation, Technical Due Diligence

Applied Data Science
Primarily using the *numpy*, *pandas*, *scikit-learn*, *xgboost*, and *tensorflow* packages; *Google BigQuery*, *Pub/Sub*; *Apache Spark*

Product Incubation on Google Cloud
Primarily using its *Kubernetes*, *Cloud Functions*, and datastore services to deploy web apps and APIs; expertise also with *Flask*, *Django REST Framework*, Go, *Vue.js*, *Gridsome*, *JavaScript*, *HTML*, *CSS*, *Bulma*, *Bootstrap*

RECENT WORK EXPERIENCE

Co-Founder & CTO, CyberFortress; 2018 - Present

Responsible for R&D, scaling, technical operations, and the talent pipeline for an insurtech startup focused on building a new kind of cyber insurance policy for ecommerce.
- Built an ML-based underwriting model that determines a company's risk of an outage in seconds from just an email address; worked with actuaries & specialists within the insurance industry on its validation
- Developed methods for continuous data collection, storage, and aggregation across hundreds of thousands of ecommerce domains
- Completed a $3.2M seed round co-led by Greycroft & Live Oak Venture Partners
- Built the company's *Risk Modeling*, *Product Engineering*, and *Product Operations* practices - which included the development of the company's customer-facing insurance platform and its partner- and regulator-facing reporting components

Principal Data Scientist, Jungle Disk; 2016 - 2019

Worked closely with the CEO on strategic growth opportunities.
- Modeled & managed price changes that significantly contributed to revenue growth in a shrinking market
- Performed financial analysis, modeling, and forecasting. Explored customer growth behaviors & digital marketing performance over time (including per-channel LTV)
- Developed IP; filed patents on key initiatives & areas of development; performed technical due diligence for strategic acquisitions

Principal Architect, Rackspace; 2010 - 2016

As a Principal Architect, responsible for the development of incubation projects with the goal of seeding new practice areas for the business. Prior to this, worked in Corporate Development performing technical due diligence on M&A, investments, partnerships, and post-merger integrations. As Chief Infrastructure Services Architect, led architecture for the *Managed Storage*, *Data Protection*, and *Virtualization* product lines.

PATENTS

1. Vulnerability Profiling Based on Time Series Analysis of Data Streams
2. Generative Text Using a Personality Model
3. Natural Language Generation Using Pinned Text and Multiple Discriminators

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EDUCATION

Ursinus College; BS, Computer Science; 1999 - 2003