

HARIHARASUDHAN VISWANATHAN

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Summary	Co-founder of ZeroDown and early engineer at Zenefits. Experience includes product management, software engineering, data science, hiring, and mentoring.	
Experience	ZeroDown (<i>San Francisco, CA</i>) Co-founder, Head of Data (GitHub)	Oct 2018-Nov 2021
	<p>Launched ZeroDown, the eponymous rent-to-own product as an alternative to the rent-or-own dilemma, offering the benefits of homeownership with the flexibility of renting.</p> <ul style="list-style-type: none">• Created an innovative legal rent-to-own product (designed to work at scale) with the help of transaction and landlord-tenant attorneys.• Designed and developed a fully guided self-serve onboarding and checkout experience for users.• Built tools, integrations, and algorithms for streamlining internal operations, including asset and credit checks, bank-grade underwriting, property diligence, and property management.• As the first COO, built and managed the operations and data science and engineering teams from the ground up. <p>Launched an innovative home listings experience for home and neighborhood research with a distributed team of designers, frontend and backend engineers, and data scientists.</p> <ul style="list-style-type: none">• Built scrapers and integrations to extract home- and neighborhood-related data (structured as well as unstructured) from dozens of public and private sources.• Designed ETL processes to clean, transform, integrate, and summarize data and to persist the information for efficient querying.• Developed algorithms to generate insights from the persisted information (e.g., home price estimates, market-hotness indicator, neighborhood rankings and guides, custom scores, key takeaways, etc.).• Exposed APIs to deliver the information and insights to end users of the product. <p>Tech: Python (Flask, Pandas, GeoPandas, Numpy), React.js, GraphQL, GCP (app engine, compute engine, cloud functions, pubsub, analytics), MySQL, PostgreSQL, ElasticSearch, Segment, Amplitude, FullStory</p>	
	Zenefits (<i>San Francisco, CA</i>) Senior Staff Engineer (GitHub)	May 2014-Jun 2018
	<p>Led the HR engineering team in the capacity of a tech lead as well as an engineering manager. Identified powerful abstractions, developed internal libraries, and evangelized their adoption across orgs.</p> <ul style="list-style-type: none">• Was the product owner of the most popular features in the Zenefits HR product<ul style="list-style-type: none">◦ Hiring and onboarding experience for US as well as international employees◦ Scheduled reminders that allows HR admins to configure custom email reminders on notable employee life-cycle events.• Designed and developed an “event-sourced bi-temporal data store” (internally called retroDB) based on event sourcing and CQRS architecture patterns.• Designed and developed a library (internally called “flow”) to manage the state of multi-page forms.• Refactored the core data models to support complex customer use cases and to pay off technical debt.• Managed engineering teams, coached peers, and contributed to the new hire bootcamp program (from culture overview talks to code walk-throughs). <p>Tech: Python (Django), Ember.js, MySQL, ElasticSearch, in-house CI/CD and analytics tools</p>	
	NEC Labs, IBM India Labs, Technicolor, and Interdigital Communications LLC Summer Research Intern	2009-2013
Education	PhD in Electrical and Computer Engineering (Rutgers University, NJ)	May 2014