

# CHAS HUGGINS

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[PORTFOLIO](#)

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## EXPERIENCE

### Senior Software Engineer

*Scrimmage Co*

June 2021 - Present

- Helped restructure front-end and back-end teams and mentored junior developers, increasing inter-team collaboration and a 30% reduction in onboarding time
- Conducted daily standup meetings and weekly Jira planning sessions, aligning engineering and product teams on priorities and deliverables.
- Drove technical initiatives to improve code quality, maintainability, and testability, resulting in a 20% reduction in bug reports and technical debt.
- Spearheaded the architecture of the React Native application, expanding the product offering from web-only to mobile platforms. Additionally, led the backend migration from Django to Flask, enhancing system performance and maintainability.
- Championed the transition to V2 frameworks, resolving key development conflicts from V1 and improving code efficiency by 25%.
- Implemented a CI/CD system, reducing deployment times by 25% and fostering seamless collaboration across engineering teams.

### Quantitative Developer

*Vacheron Capital LLC*

Oct 2016 - Present

- Designed and implemented low-latency algorithmic trading strategies using Python, leveraging machine learning libraries like PyTorch, Pandas, and TensorFlow to extract predictive signals from alternative data sources like social media and web traffic.
- Developed and backtested advanced quantitative models and statistical techniques to identify alpha factors, optimize portfolio construction, and dynamically manage risk exposure based on market conditions.
- Engineered and deployed a distributed, fault-tolerant data processing pipeline on AWS for ingesting, cleaning, and analyzing large volumes of structured and unstructured data from multiple sources.
- Designed and optimized in-memory caching systems using Redis to provide low-latency access to real-time market data and pre-computed analytical results.
- Leveraged Linux DevOps tools and containerization with Docker to enable efficient development workflows, automated testing, CI/CD processes, and scalable application deployment.

### Associate

*Citigroup*

March 2014 - Oct 2016

- Developed complex financial models in Excel/VBA to evaluate M&A transactions, perform accretion/dilution analysis, forecast synergies, and generate pro forma financials to advise clients on potential deals.
- Conducted in-depth market research, built comparables analysis, and performed discounted cash flow valuations to support investment theses and negotiate optimal deal terms.
- Prepared detailed investor presentations and client pitch books by synthesizing quantitative analysis, crafting compelling narratives, and creating high-quality visualizations.
- Collaborate cross-functionally with industry experts, lawyers, and accountants to conduct comprehensive due diligence and uncover key risks and opportunities.
- Utilized Python to automate repetitive financial modeling tasks, increasing efficiency and reducing human error when working with large data sets.
- Managed multiple deal processes concurrently, prioritizing tasks and working within tight deadlines in a fast-paced environment.

## PROJECTS

**VACHERON CLOTHING** (React/Redux, OAuth, Stripe API, Firebase/Firestore)

[live](#) | [github](#)

*An E-Commerce application that uses multiple API's and showcases frontend development.*

- Created with React utilizing Redux for state management and Google Firebase/Firestore for the server and database.
- Used Stripe API for merchant services processing.
- Utilized the Reselect Redux library to create Structured Selectors to return memoized results if nothing has changed.
- Implemented Google OAuth to make User Authorization more convenient.

**BUDGETLY** (React/Expo, OAuth, Firebase/Firestore, S3)

[github](#)

*A detail-oriented application that showcases frontend and mobile development with a focus on aesthetics paired with functionality and practicality.*

- Created with Expo utilizing React for state management to enable both IOS and Android usage and having desktop presentation as well.
- Usage of Google Firebase/Firestore for authentication and both the server and database while seamlessly integrating it into the front end to minimize code and tech debt.
- Utilized multiple React and Expo compatible packages to create a great UX/UI to create ease of useability and increase popularity regardless of the user's choice of display.
- Implemented Google OAuth to make user authorization more convenient and streamline the usage of firebase & firestore.
- Work in progress - using S3 to allow users to upload images of important receipts and store that under their account.

## SKILLS

**LANGUAGES:** Python, Typescript, Java, Ruby, C++, R

**FRAMEWORKS:** Django, Flask, Node.js, Spring, Ruby on Rails, React, Next.js

**DATA:** Distributed Systems, Data Pipelines, ETL, Stream Processing, SQL, MongoDB, PostgreSQL

**CLOUD:** AWS (EC2, EMR, Kinesis, Lambda, S3, RDS), Docker, Kubernetes, CI/CD, Terraform

**CORE COMPETENCIES:** API Design, Object-Oriented Programming, System Design, Microservices

## EDUCATION

**Bachelors of Science in Accounting | The Citadel**

**May 2010**

*Minor in Computer Science*