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San Francisco, CA

Nicholas W. Vincent-Hill

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Technical Skills

Front-end | React/Redux, HTML5/CSS/JS, Node.js, jQuery, p5.js, AngularJS, Bootstrap, Backbone.js
Back-end | Express, SQL, MySQL, MongoDB, Cassandra, Grunt, PostgreSQL, SQLite, New Relic, Firebase
Tooling | Jest/Enzyme, Mocha/Chai, Webpack, CircleCI, Docker, CircleCI, Heroku, AWS, Git, VSCode, Linux

Projects

AirSDC | github.com/airsdc | Software Engineer
System-design case study load-testing server/database choices, optimizations, node-clustering, and caching
- Evaluated performance of Cassandra and PostgreSQL using A/B testing to fit business objectives
- Identified system bottlenecks with Siege and New Relic to prioritize high ROI optimizations
- Deployed and horizontally scaled microservice across multiple AWS EC2 instances to 1k RPS

AirFEC | github.com/airfec | Software Engineer
MERN-stack app based on a popular online marketplace for people to rent short-term lodging
- Consolidated four micro-services and deployed dockerized proxy service to AWS EC2 instance
- Developed thoughtful UI and design schema choices to unify application and create a fluid UX
- Implemented unit/integration tests with Jest/Enzyme and achieved 75% test coverage

AstroCore | github.com/nvincenthill/astrocore | Software Engineer
Multiplayer mobile-web game built with MERN stack + socket.io, deployed on AWS EC2
- Created real-time (60fps) multiplayer experience with server-side game logic distributed to client views
- Engineered undirected graph/node/edge data structure to create strategic depth and complex gameplay

Experience

Hack Reactor | Software Engineering Fellow and Associate Lecturer   **San Francisco, CA** 2018 - 2018
- Instructed students in JS fundamentals, React, SQL, Git, deployment, and development tools through 1000-hour advanced software engineering immersive
- Improved existing data structures curriculum and delivered lectures on data structures, algorithms, recursion, and problem-solving strategies

Compass Analytics | Hedge Manager   **San Francisco, CA** 2016 - 2017
- Hedged client risk with mortgage-backed securities (traded ~$1.5B/month)
- Designed SQL/VBA procedures to create and automate client reports
- Advised mortgage-originator clients to achieve their business and profit objectives

Bocage Capital, LLC | Execution Trader   **San Francisco, CA** 2015 - 2016
- Traded equities, commodities, and derivatives domestically and internationally for a levered long-short commodity-focused hedge fund with ~$650M AUM
- Executed algorithmic strategies to optimize P&L and TCA (saved ~10 bps/trade)

Education

Hack Reactor   **San Francisco, CA** 2018
Advanced Software Engineering Immersive

University of California, Berkeley   **Berkeley, CA** 2014
Walter A. Haas School of Business | B.S. Business Administration

Interests

Traveling, urban-gardening, martial-arts (BJJ, Judo, American kickboxing), trading/investing, creative coding