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**JOHN WRIGHT STANLY**  
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Java, Python, C++  
C, TypeScript, Go

## Education

### Computer Science, BS

Georgia Institute of Technology

Aug 2021 – May 2025

- 3.95 GPA. Won Georgia Tech Jacksonville Alumni scholarship. Deferred admission from Fall 2020 to Fall 2021
- Launched Community Membership at Startup Exchange, GT's largest startup community

## Experience

### Quant Engineer Intern

Citadel

Jun 2024 – Aug 2024

- Reduced load times 10x for bond buybacks by re-architecting financial modeling of corporate actions into streaming model
- Optimized data architecture by migrating two teams' MongoDB Collections and MSSQL tables into one unified SQL table
- Worked front office in credit. Discovered new needs from analysts after initiating discussions, expanding my intern project

### SWE Intern

Speedscale (YC S20)

Sep 2023 – Apr 2024

- Built new observability tool for Kubernetes workloads using Kubernetes operator, Kubernetes sidecar, gRPC API, Go, React
- Migrated auth off Auth0's hosted solution. Handled JWTs, third-party cookies, social logins, SSO with React Hooks, Context
- Picked up bugs whenever teammates didn't have bandwidth. Did the boring stuff to help keep the team running

### SWE Intern

Google

Sep 2022 – Dec 2022

- Created 15M new monthly users for feature in Google Maps for Android with frontend mobile Java, backend Java
- Removed waterfall loading states by architecting concurrent, batched network requests to Google servers
- Initiated communication with separate team to discuss our team's experiment's long-term viability, required collaboration

### SWE Intern

Cloudflare

May 2022 – Aug 2022

- Resolved 9-month-old bug in production, increased throughput 10x by refactoring distributed Kafka queue, Clickhouse use
- Added 3<sup>rd</sup> alert type for Cloudflare customers by registering on frontend, handling streamed events, querying PostgreSQL
- Simplified Kubernetes DevOps by starting TeamCity CI/CD on Git triggers, automating Docker image security checks

### Co-Founder

Winsight

Oct 2020 – May 2022

- Raised \$250,000 to build startup for livestreaming youth sports. Acquired via offers from investors, Dick's Sporting Goods
- Gained 500+ users by demoing the product at sporting events to parents and kids, discussing pros and cons of the product
- Expanded company from 4 to 8 persons. Conducted the technical interview for 2 new hires

### Technical Lead

- Decreased costs 30x versus AWS Elemental Media by architecting a custom livestream load balancer using EC2 and Lambda
- Introduced video sharing URLs by migrating web from React to Next.js for SSR, building MP4 transcoder for sharable files
- Lowered bandwidth viewing requirements 4x by transcoding RTMP in parallel, adaptive bitrates at 720p, 480p, 360p
- Automated highlight reel pipeline with HLS spec. Generation is <1 second, 100% consistent, and supports multi video inputs
- Abandoned Node Camera (React Native) for Streamaxia (Objective-C) library to improve RTMP broadcasts over poor cellular
- Enlivened video watching on web and mobile by adding animated overlays updated with game data using React Animations
- Oversaw refactoring of monorepo into multi repos with shared NPM package to improve distribution of internal JS libraries

## Projects and Awards

- **Ivy Hacks Winner** — Winner at Ivy League hackathon. Built AI crowdsourcing app with machine learning classification, C++
- **Greylock VIP** — 1 of ~80 from 1000s invited nationwide to connect with Greylock's portfolio founders in private event
- **getsuperstream.com** — Built B2B SaaS video tool. Productionized with Stripe subscriptions, rate limiting, auth, etc.
- **Personal Blog** — Attract 750+ users/week, rank #1 on Google SEO for React.js topics with custom built full stack blog
- **TarbCoin** — Deployed a token to the Ethereum blockchain using the ERC-20 standard, Solidity, Truffle, Infura, web3.js

## Skills

- **Technologies** — Bootstrap, Clickhouse, CSS, Docker, Express, FFmpeg, Git, gRPC, H.264, HLS, HTML, HTTP, Kubernetes, Linux, MySQL, Next.js, Node.js, NumPy, Pandas, Postgres, Protobuf, React, Redis, REST, RTMP, Tailwind, TCP/IP, Terraform
- **AWS Services** — ACM, API Gateway, Aurora, CDK, CloudFormation, CloudFront, CloudWatch, CodeDeploy, CodePipeline, Cognito, DynamoDB, EC2, IAM, Infinidash, Lambda, Lambda@Edge, RDS, Route 53, S3, SAM, SES, SNS, SQS, VPC