DION OLUMESE

📞 (443) 716-5306 | ✉ doolumes@cougarnet.uh.edu | 🔗 /DOOlumes | 🌐 /DOOlumes

EDUCATION

University of Houston   Houston, TX
B.Sc. Computer Science | Minors: Data Science, Finance | GPA: 3.7   *May 2025*

EXPERIENCE

Netflix   June 2024 - Aug 2024
Incoming Software Engineer Intern   *Los Gatos, CA*
- Cloud Compute: Expected to work on latency improvements related to containerized services on AWS EC2 instances (**Titus**)

PEAK6   May 2024 - June 2024
Incoming Quantitative Trading Intern   *Chicago, IL*
- Trader: Expected to work with traders to analyze company fundamentals and environments to make strategic trading decisions

Splunk   Sep 2023 - Dec 2023
Software Engineer Intern   *San Francisco, CA*
- Engineered OTLP Metric Collector for comprehensive overview of 1,000+ internal projects, achieving 20% accuracy improvement
- Integrated GitLab's webhooks & SonarQube API to retrieve ~20 metrics, enabling real-time monitoring of CI/CD piplines
- Leveraged Go's concurrency for metric forwarding to Splunk CO2 via HTTP Event Collector, ensuring efficient data transmission
- Employed Docker within Kubernetes cluster for service orchestration, resulting in 100+ hours of operational collector up-time

Honeywell   May 2023 - Aug 2023
Software Engineer Intern   *Atlanta, GA*
- Revolutionized Honeywell's observability system with OpenTelemetry .NET SDK & API's, boosting development speed by 35%
- Enabled real-time production insights for cross-functional teams with 20+ advanced Datadog dashboards, Jaeger, & Prometheus
- Pioneered 3 REST/SOAP Endpoints, elevating Pro-Watch SQL Server by streamlining 3rd-party video integration capabilities
- Automated employee data transformation from ServiceNow API to Honeywell systems using Node-Red, reducing labor by 5%

B-Stock   Jun 2022 - Aug 2022
Software (Data) Engineer Intern   *San Mateo, CA*
- Upgraded 15+ Docker & App Engine micro-services for performance & compatibility using Python within Gitlab CI/CD
- Developed robust Python tool to parse up to 2GB JSON into readable CSV, storing files seamlessly within Google BigQuery
- Implemented ACH payments (Stripe API) for Costco, ensuring secure transactions for 1,500+ daily liquidation auctions
- Engineered a big data Python service to efficiently sync Qualtrics API survey questions to Google BigQuery, timestamp oriented

PROJECTS

Multi-Type Order Book | *Good Till Cancel, Fill and/or Kill, Good For Day*   *Project Link* ↗ | Mar 2024
- Designed an order book system in **C++**, facilitating order management and trade execution in real-time financial markets
- Utilized advanced data structures & algorithms, including maps, lists, queues, & shared memory to process orders
- Optimized order matching algorithm, achieving fast trade execution, leveraging price-time priority & order book aggregation
- Integrated robust testing interface using **Google Test framework**, achieving **100%** coverage while identifying edge cases

Auction House | *League of Legends Trading Cards*   *Project Link* ↗ | May 2023 - Mar 2024
- Created a low-latency Typescript-based auction house, integrating **RabbitMQ** for pub/sub and **Redis** cache for bid receiving
- Orchestrated micro-services within **Docker & K8s on Google Compute Engine**, ensuring high scalability & availability
- Leveraged **Postgres** as a data store, supporting a high throughput of 250+ bids a second, via **WebSockets** for real-time updates
- Incorporated automated deployment pipeline using **Workflows**, accelerating new features & ensuring continuous user experience

LEADERSHIP & AWARDS

Eagle Scout — (*Project: Aug 2020 - Present* ↗): Senior Patrol Leader, Order of the Arrow, fundraising, merit badge tutor, charity
Howdy Hack '23 — Placed top 10 in Texas A&M's Hackathon 2023 (Project: *Airplan: American Airlines Passenger Experience* ↗)
2021 Marjorie Hall Chamberlain Memorial — $10,000 Scholarship awarded to Top 10% Garland ISD Seniors upon graduation
NSBE: Vice Chair — Informing 100+ students weekly in professional development; planned & led monthly Houston charity events

TECHNICAL SKILLS

Languages:	C++ | C | C# | Java | Python | Go | SQL | R Studio | JavaScript (ES6+) | HTML/CSS
Frameworks/Technologies:	MongoDB Atlas | Firebase | Docker | PostgreSQL | Django | Node-Red | Redis | Kubernetes
Relevant Coursework:	Programming & Data Structures | Discrete Mathematics | Statistics of the Sciences | Linear Algebra
	Database Systems | Operating Systems | Data Science I | Algorithms | Software Design (current)