

Graham Burleigh

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EDUCATION

- **Northwestern University**
Bachelor of Science, Computer Science

Evanston, IL
Sep. 2018 - Jun. 2022

EXPERIENCE

- **Stax Payments** Orlando, FL
Software Developer - Onboarding/Risk *Jan 2023 - Pres*
 - **Dispute Resolution Revamp:** Led fullstack design of a new payment dispute feature, allowing users to directly monitor and manage inconclusive transactions
 - **Registration Efficiency:** Part of three-developer squad responsible for decreasing merchant application pend rates by more than 20%
 - **PayPal Onboarding Rehaul:** Co-led initiative to onboard 8000 merchants onto PayPal via API integration
 - **Deposit Reporting Accuracy:** Co-led a complete redesign of Stax Pay's deposit report feature that made up 25% of all traffic on the site
 - **Fraud Detection & Mitigation:** Implemented over 30 Datadog monitors to proactively identify suspicious activity and prevent fraud
 - **On-Call Service:** Provided all-week round-the-clock support for incoming customer support requests, bug reports, and performance degradation
- **CardX** Chicago, IL
Software Developer *Jun 2022 - Jan 2023*
 - **Payments Infrastructure:** Developed and implemented critical AWS infrastructure (Lambda & S3) to support various payment functionalities and platforms
 - **Third-Party Integrations:** Designed and integrated third-party payment solutions like Mastercard's Click to Pay, onto which we onboarded more than 1000 merchants
 - **Scalable Recurring Billing:** Optimized the recurring billing system for high scalability, ensuring efficient processing of thousands of daily transactions
 - **Exceptional Customer Support:** Resolved over 100 client tickets within a year as an operations specialist, effectively troubleshooting and resolving bugs on the spot
 - **DevOps and CICD:** Handled all aspects of ticket lifecycles from testing to deployment, making more than 150 unique releases across all of our repositories

RESEARCH AND PUBLICATIONS

- **ACM AsiaCCS 2024:** Decoding the MITRE Engenuity ATT&CK Enterprise Evaluation: An Analysis of EDR Performance in Real-World Environments
- **DigitChecker:** Validate and peek into card numbers before hitting the BIN network
- **ScrapeLib:** Open source Python library for scraping forum posts from freelancing sites and monitoring for censorship.
- **MITREeval:** Open source Python library for fetching and interpreting MITRE evaluation results to rank vendors and threat techniques in terms of effectiveness and efficiency.
- **PeakURL:** CLI utility for fetching network information from URLs such as HTTPs headers, DNS records, and root certificates.
- **MarketCoin:** Blockchain ecosystem featuring proof-of-work and consensus mechanics emulating popular cryptocurrencies.

PROGRAMMING SKILLS

- **Languages:** Javascript, Typescript, Python, Bash, C/C++
- **Web Frameworks:** React.js, Vue.js, Sass, Flask
- **Backend Stacks:** Express.js, MySQL/PostgreSQL, Knex.js
- **DevOps:** AWS CDK (Lambda, S3, SQS, IAM) Auth0, Docker, Datadog
- **Agile:** Jira, Git, Bitbucket, Slack, Teams
- **Environments and Testing:** Node.js, Jest, Cypress, Conda