Anton Generalov

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PROGRAMMING SKILLS AND CERTIFICATIONS

- **Programming Languages**: Python | Java | JavaScript/TypeScript | SQL | HTML5/CSS3
- **Technologies**: AWS | React | Next.js | Node.js | Express.js | Flask | Docker | Terraform | New Relic | Git | Figma
- **Certifications**: AWS Certified Solutions Architect | AWS Cloud Practitioner | PSM I - Professional Scrum Master

EDUCATION

University of Chicago — Chicago, IL
Bachelors of Science in Computer Science — *Sep 2016 – Jun 2020*

- **Accomplishments**: Odyssey Scholarship (full-ride), Varsity Swim Team - All-Academic Team Nominee, Dean's Honor Roll

EXPERIENCE

McDonald's Rotational Program - Global Architecture — Chicago, IL
Software Engineer — *Sep 2021 - Present*

- **Data Streaming**: Developed scalable **Java** producers/consumers running on **AWS Fargate/ECS clusters** to reliably stream 40M+ active customer profile updates through large-scale **AWS Kinesis/MSK Kafka** data streams.
- **Improved Logging**: Mitigated business-critical performance issues by estimated 20% in marketing platform by standardizing logging across all **AWS ECS clusters and Lambda functions** and redesigning **New Relic dashboards**.
- **High-Performance Logic**: Validated over 40M+ historical customer profile loads to ensure accurate marketing to customers via **Python** scripts, loading from **DynamoDB table** and 3rd party marketing tools via API call.

McDonald's Rotational Program - US POS & Kiosk Restaurant Products — Chicago, IL
Software Engineer — *Jan 2021 - Sep 2021*

- **Coffee Customization**: Revamped the customer experience across 14,000+ restaurants by updating customization experience of McCafe coffee, improving crew fulfillment displays and customer receipts to reduce incorrect orders by 10%.
- **Delivery Fees**: Led the feature development and user requirements for revamped delivery fees across new integrated delivery service, driving an estimated $100M+ in delivery fee revenue across $6B+ of food deliveries.
- **Systems Design**: Created architecture design plan in collaboration with enterprise architect to improve back-end data collection and stability of 80,000+ digital food safety sensors.

McDonald's Rotational Program - Infrastructure and Operations — Chicago, IL
Software Engineer — *Jun 2020 - Jan 2021*

- **Stakeholder Updates**: Increased on-time submissions from 40% to 96% by creating a web interface in **React** and **Express.js** to collect market updates from directors to compile data to Smartsheets through API calls.
- **Privacy Analysis**: Simplified privacy and consent implementation across technology teams through developing a implementation framework by leveraging **Amazon Redshift** data analysis and stakeholder working sessions.
- **Process Improvements**: Increased speed of project intake process by 20% by collaborating with senior leadership across tech organization to develop a new Azure DevOps project process.

University of Chicago Network Architecture — Chicago, IL
Software Engineer Intern — *May 2018 - Jun 2020*

- **Latency Visualizer**: Shortened support response time by 30% by developing a network latency visualizer that pings university building IPs, displaying dynamically refreshing colored-blocks using **React** and **Python Flask.**
- **Service Portal**: Streamlined IT maintenance worker lookup experience though creation of a web app to display necessary service information via ServiceNow RESTful APIs using **Python Flask** and **Bootstrap**.
- **Network Metrics**: Enabled real-time network metrics for up to 3 TB/s of network traffic by writing **Python** scripts to pull different network data sources into Graphite dashboards.

Polsky Center for Entrepreneurship and Innovation — Chicago, IL
Software Engineer Intern — *Jun 2018 - Aug 2018*

- **Schedule Automation**: Automated 120+ hrs/year of manual entry by writing **Python** code deployed into **Docker** to populate mentor appointment schedules from front-end into Salesforce CRM via API calls.
- **Front-End Website**: Accomplished 25% increase in visitors and improved UI/UX of startup website by developing pre-rendered, static website for startup company using **React and Next.js.**
- **Statistic Dashboard**: Enhanced startup's decision-making by creating dashboards using **PostgreSQL** and **Redash** to create real-time visual trends on KPIs from desktop app users.

PROJECTS AND ACCOMPLISHMENTS

- **McDonald's Hackathon 2021**: Won award from Google out of 100+ global teams for "Best Implementation of Technology", for AR "Happy Meals" application - using **React, Go, and Google Compute Engine.**

- **Public Speaking VR Simulator**: Collaborated with team to develop **Unity VR game** to practice speech and eye contact while using teleprompter. Integrated Arduino and accelerometers code in **C** to detect erratic movement.