Nathan Robinson

Software Developer

 github.com/nate-robo

Skills and Expertise

Programming	*Python (Expert), Lua (Proficient), C#, JavaScript/jQuery, C++, Java (Novice)*
Databases	*MySQL, MongoDB, SQL Server, Oracle, Comdb2*
Technologies	*Unix, Django, Flask, Kafka, Redis, ElasticSearch, Git, WebSockets*

Experience

2018-Present — **Senior Software Engineer II**, Resy / AMEX Global Dining Network, New York, NY.
- Architect microservices utilizing Python, Flask and Django with MySQL and MongoDB for data storage
- Serve as primary maintainer of inventory microservice, which services approximately 50 million requests per day
- Function as lead architect for bots and brokers security posture, planning and implementing initiatives that promote fair use and platform integrity
- Developed rate limiting system preventing 100-200K fraudulent requests daily, protecting reservation availability for legitimate users
- Strengthened platform security through enhanced user verification, payment security measures, and anti-bot implementations

2016-2018 — **Software Developer**, Bloomberg LP, New York, NY.
- Developed web-based automation tools that streamlined data extraction and analysis workflows, significantly reducing manual effort and error rates for the financial data team
- Migrated critical C++ modules to Python as part of core engineering team, improving development velocity while maintaining system performance
- Implemented core improvements to Bloomberg Terminal's financial analysis products using C++, enhancing functionality for end users
- Designed and built internal tools that improved data entry team efficiency by automating complex financial data extraction from news and financial documents

2016-2016 — **Software Development Intern**, Habitat For Humanity, Allentown, PA.
- Replaced Microsoft Access DBMS with modern web application using Python, Django, and MySQL
- Developed data migration scripts and collaborated with organization stakeholders to implement user requirements

2015-2015 — **Software Development Intern (Emerging Talent Program)**, Merck & Co., Branchburg, NJ.
- Contributed to information retrieval and recommender systems to improve internal content discovery
- Worked on data parsing and patient stratification for open-source health platform web-service

2014–2014 — **Security Intern**, Ithaca College Technology Services, Ithaca, NY.
- Performed vulnerability assessments on college intranet and resolved network security issues
- Utilized security monitoring services and researched emerging cybersecurity threats

Education

2012–2016 — **Bachelor of Science in Computer Science**, *Ithaca College*.

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