

MICHAEL T. MOSIER

New Orleans, LA | (832) 464-5313 | mtmosier@gmail.com

SKILLS

Programming Skills: Python; PHP; SQL; HTML; JavaScript/jQuery; CSS; C/C++; GTK; XML; AJAX; Java

Software Tools: Terraform; Docker; MySQL; Apache; Git/Github; CVS/Subversion; Asterisk

Theoretical Knowledge: RegEx; Multi-threaded Programming; Socket Programming; Application Development with Emphasis on Infrastructure and Automation; Database Interaction; Third-Party Application Integration (OpenAI, Rackspace, AWS), Payment Processors (Orbital, Linkpoint, Authorize.net, Payflow Pro), Shipping Processors (USPS, UPS, FedEx), Order management Systems (OrderMotion, Warepak, Amazon FWS), General (REST, SOAP)

WORK EXPERIENCE

PRACTICAL DATA

Chicago, IL

Software Engineer | Senior Software Engineer

10/2010 - 02/2025

- Architected a promotions and coupons app that boosted client revenue by up to 25%.
- Implemented a store credit module for both B2C and B2B, resulting in a 5% annual revenue boost for a major client.
- Built tools using Terraform and hosting providers' APIs to migrate from Rackspace to AWS, cutting hosting costs by 40%.
- Authored an AI tool to automate review approvals, reducing manual review time by 90%.
- Created an advanced email reporting system that tracked open rates, spam reports, and campaign-to-order conversions—shifting email from a cost center to a profit center.
- Wrote a PHP job scheduler handling an average of 8,000 jobs monthly across dozens of components per client.
- Enhanced system functionality by adding an event-driven layer that cut new module integration time by 20%.
- Devised a software build tracker and installer that streamlined client software management, saving over 50 manual hours monthly.
- Developed a site status integration enabling 200+ client sites to send key metrics to a centralized server, yielding annual savings equivalent to 1–2 full-time administrative roles.
- Integrated with five key third-party systems and delivered custom solutions for 200+ client accounts.
- Strengthened security by implementing iterated SHA256 password hashing, enforcing limited login attempts, time-limited token exchanges, IP blacklisting, and protections against XSS and SQL injection. These improvements reduced unauthorized access attempts by 60% and increased security audit scores from 70% to 95%.
- Engineered a mobile store generator to reformat a Turbify data feed for enhanced mobile usability—reducing manual update time by 30%.
- Mentored a junior dev while evolving the mobile store generator into a responsive store solution that hosted key client websites, boosting mobile conversion rates by 15%, maintaining 99.5% uptime, and cutting hosting management costs by 20%.
- Devised an advanced template system with control structures, looping, and data manipulation, increasing developer productivity by 25%.
- Constructed a highly customizable product search engine used by sites generating millions monthly—resulting in a 10% increase in conversion rates and a 20% reduction in query response times.
- Managed mission-critical Linux cloud servers hosting client sites, reducing system downtime by 25%.

ASTROLABE.COM

Chicago, IL

Senior Software Engineer

09/2003 - 10/2010

- Spearheaded an e-commerce application in PHP/MySQL with an XML API for third-party integrations, meeting PCI DSS requirements and connecting with shipping/payment processors, processing 50+ orders daily and reducing order times by 25%.
- Administered Amazon Cloud (EC2) servers, modifying AMIs and configuring EBS drives in RAID to boost I/O throughput by 20%, while running web, database, and VoIP Asterisk servers to ensure 99.9% uptime.
- Designed a semi-automated tool to process CDs—ripping tracks, identifying and naming songs, shortening track duration, and uploading audio files—cutting manual processing time by 50% and saving approximately 4 administrative hours per week.
- Managed and heavily customized an ERP system (OFBiz) and a third-party e-commerce system (Magento), integrating the two to reduce manual data entry by 30% and cut support tickets by 20%.
- Set up and maintained VoIP systems using Cisco SIP phones—with interactive dial plans connected to websites and databases on Asterisk for Linux—supporting 20 concurrent calls and reducing dropped call rates by 20%.
- Tightened security by implementing strong encryption, iterated and salted password hashes, and locking down production servers—resulting in a 35% reduction in reported vulnerabilities and a 25% improvement in quarterly security audits.

PROJECTS

- Led a team on a Python cryptocurrency trading bot to take advantage of arbitrage opportunities across 5 exchanges—capturing an average profit margin of 1.5% per trade.
- Wrote a VoiceAttack plugin in C# that seamlessly connected with a game, enabling real-time event updates and data access from game export files, achieving a 90% user satisfaction rate.
- Delivered development-level support for a distributed Java application used by clients such as Bank of America, TheStreet, and other institutions—ensuring 99.5% uptime and reducing issue resolution time by 30%.
- Deployed and configured production systems on Linux (Debian and RHEL), HP-UX, Solaris, and AIX—achieving 99.9% uptime.
- Created a Linux SQL GUI tool to simplify support team tasks—reducing manual query time by 30%.
- Collaborated on a computer network-based customer acquisition server and neural network-driven decision engine (Patent #US6782375), boosting customer conversion rates by 30%.
- Conceived and built a children's toy with lights, sounds, and a counting mechanic using an Arduino, achieving a 90% positive feedback rate in pilot testing.
- Architected a home security system—including a power outlet controller for lights, a camera, a siren, motion sensors, an NFC key, and battery backup using a Raspberry Pi—reducing overall costs by 20%.

EDUCATION

Computer Information Systems – DeVry Institute of Technology, Chicago, IL