

Michael King
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EDUCATION

Western Carolina University

Cullowhee, NC

B.S. in *Computer Science*; Minor in *Mathematics*; GPA: 3.27; Dean's List 2 semesters

Aug. 2012 – May 2016

B.S. in *Electrical and Computer Engineering Technology*; GPA: 3.62; Dean's List 2 semesters

Aug. 2011 – May 2015

EXPERIENCE

Tripleseat

Remote/Concord, MA

Software Developer

Aug. 2020 - present

- Developing and maintaining a full-stack web app with Ruby on Rails, MySQL, & AWS
- Implemented data synchronization capabilities with sister product, eventup.com
- Lead projects to implement 3rd party API integrations

MWW On Demand

Hendersonville, NC

Software Engineer

Mar. 2017 - July 2020

- Developed and maintained a JSON API and web app built with technologies including: Ruby on Rails, Javascript, relational databases, among others
- Developed custom engines and API integrations for numerous customers and SaaS providers to seamlessly integrate their systems and services with ours
- Developed many automated solutions for both internal and external use. These usually took the form of custom UIs integrated into the web app to aid in the manufacturing process, automated scripts (.rb/.sh/.py) managed by cron, slack bots, mailers, and auto-generated reports

Western Carolina University

Cullowhee, NC

Laboratory and Project Assistant - Electrical Engineering

Aug. 2015 - May 2016

- Oversaw engineering labs and classrooms, assisted on graduate and course projects carried out in the engineering and technology department (primarily circuit design and PCB fabrication), developed example programs in MATLAB and C, and assisted engineering faculty on day-to-day activities

RadioShack & Carolina West Wireless

Newland, NC

Technician & Sales Associate

May 2012 - Jan. 2016

- Offered customer service and aid in the sales of store products as well as troubleshooting and repairing electronic devices

Avery County Schools

Newland, NC

IT Internship

Aug. 2010 - Jun. 2011

- Intern under my high-school's head IT technician (and former NASA engineer of 30 yrs.). My tasks included repairing and troubleshooting computers and other various hardware, managing inventory, building new PCs, installing wireless access points, managing network cabinets, among others

PROGRAMMING SKILLS

- **Languages:** Ruby, Javascript, Python, Java, C/C++/C#, SQL, Rust, Bash, L^AT_EX, Kotlin
- **Frameworks & Libraries:** Rails, Django, NodeJS, React, Three.js, EmberJS, Android
- **Technologies & Tools:** git, AWS, Docker, cron, Redis, Capistrano, Sidekiq/ActiveJob, Celery, Passenger, Nginx, Atlassian Software (Jira, Trello, Confluence), Material Design, Bootstrap
- **Methodologies:** OOP, MVC/MVVM, ORM, TDD, BDD, Agile

ENGINEERING SKILLS

Circuit analysis • Circuit design • PCB fabrication • Digital Signal Processing • MATLAB • Arduino • Raspberry Pi • Microcontroller interfacing • Motor control • CNC operation • 3D printing

NOTABLE OPEN SOURCE SOFTWARE CONTRIBUTIONS

- **SpaceX Ruby Client:** Ruby library that consumes SpaceX API github.com/rodolfobandeira/spacex
What I've done: Implemented V3 endpoint calls for (Specific, Past, & Upcoming) Launches, implemented V4 calls for the Cores, Company, Launches, and Starlink endpoints, and many tests
- **Zebra ZPL:** A Ruby gem for generating ZPL & printing to Zebra printers. github.com/bbulpett/zebra-zpl
What I've done: I am a maintainer of this gem. I've implemented and updated a lot of functionality including support for QR Codes, images, Windows platform support, and many many tests
- **devhints.io:** a collection of cheatsheets for many languages, libraries, and tools github.com/rstacruz/cheatsheets
What I've done: Added/updated pages for **grep**, **find**, and **bash**
- **Shippo Ruby Client:** A Ruby wrapper for the Shippo API github.com/goshippo/shippo-ruby-client
What I've done: Updated code to resolve deprecations, fixed bugs that were breaking an API call, improved tests

SOCIETIES AND ORGANIZATIONS

- Institute of Electrical and Electronics Engineers (IEEE) *2014 - present*
(Secretary of WCU Student Branch) 2014 - 2016
- Association for Computing Machinery (ACM) *2014 - present*
- WCU Robotics Club *2014 - 2016*
(Team programmer and electrical engineer)
- WCU Computer Science & Math Club *2014 - 2016*
- WCU Pride of the Mountains Marching Band *2011 - 2013*

EXTRACURRICULAR

Astronomy • Astrophotography • Computer Graphics • 3D Art & Animation (Blender) • DIY electrical projects • Game Development • Gaming • German (limited working proficiency) • Guitar • Hiking • Robotics

REFERENCES

Available upon request