Keith MacKay

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EDUCATION

Bachelor's in Computer Science   **December 2016**
  North Carolina State University (NCSU), Raleigh, NC

TECHNICAL SKILLS

- Strong working proficiency with numerous languages and development applications including:
    - Java, Typescript, Android App Development, Kotlin, Golang, C#/VB.NET, React.js, Python, Spring, SQL (OracleDB, MySQL, and Microsoft SQL), Hibernate, MongoDB.
- Extensive experience with using Agile Development Process
- Very experienced in Unix/Linux environments using bash and also Windows using Powershell
- 4 years of experience as a Consulting Backend Engineer
- Experience working in modern Cloud architectures, including Docker, Kubernetes, AWS, Azure, Heroku, DigitalOcean, and GCP

PROFESSIONAL EXPERIENCE & LEADERSHIP

Solutions Architect, Big Nerd Ranch (now Stellar Elements), Remote   **April 2022 - Present**
Senior Software Engineer, Big Nerd Ranch, Remote   **July 2020 - April 2022**
- Led Development and DevOps as a consultant. Made high level technical decisions on kubernetes architecture, and helped maintain Kubernetes resources during updates and Ingress Migrations
- Worked to improve application security and resiliency while maintaining 100% uptime on all APIs
- Implemented Client requirements and integrated with client team to understand results and help map how best to accomplish them
- Managed a team of 6 other Engineers, and mentored another 3 engineers
- Led Technical interviews and made hiring decisions for candidates
- Managed relationships with other data holders and API teams to transform and proxy data to assist UI teams
- Responsible for the entire backend of the loyalty program for one of the 10 largest fast food restaurants in the world

Software Engineer, Cisco, Durham, NC   **April 2019 - July 2020**
- Working in a Kubernetes Environment to migrate applications from an older infrastructure to work in Kubernetes
- Created many custom tools to:
    - Manage Kubernetes Configurations
    - Automated Calculation billing for Software-as-a-Service running in Kubernetes
    - Track Service Outages and inform DevOps team of issues
    - Improve metrics gathering into Prometheus on Self-Hosted Kubernetes Instances
    - Continually manage binary storage space in Artifactory server to remove stale contents
- Created an open-source ready, cloud-native Status Page so that end-users could view the status of their services

Software Engineer, Q-Free ASA, Raleigh, NC   **Dec 2017 - March 2019**
- Developed Backend and Frontend with Java (GWT)/Javascript (Node.js and React)
- Worked alongside QA to develop automated Black and White Box testing
- Made Design decisions for microservice integration via REST

Junior Software Engineer, Honeywell, Raleigh, NC   **Jan 2017 - Dec 2017**
- Worked as a Firmware Test Engineer assisting electrical engineers by writing a Python testing framework to communicate with electrical meters
- Developed Python-based automated testing framework for electric meters
- Developed new feature tests to verify expected firmware functionality

SKILLS, INTERESTS, AND HONORS

- Self-teaching further development skills (Kubernetes, JavaScript, Android, .NET Framework, Go, Kotlin, and Python are self-taught)
- Contributed to open-source projects on Github