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Adrian Bolt

Website (links to GitHub,
LinkedIn, writings, etc.):
techmaster21.github.io

Employment

Quantum Software Engineer	State Farm	Oct 2021 – Present
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- Foundational member of a team dedicated to discovering and exploring quantum computing use cases for State Farm
- Learned and used quantum computing concepts and theory
- Used and studied machine learning relevant to the quantum computing field including **neural networks** and **support vector machines**, using primarily **Scikit-learn**, **PyTorch**, **Qiskit**, and **AWS Sagemaker**
- Guided team composition and strategic direction: directly involved in hiring and onboarding two full-time employees and an intern

Software Engineer	State Farm	Feb 2020 – Oct 2021
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- Created a **Java** and **Kotlin** application to export data from agile tool into **InfluxDB2**, consumed by **Grafana**, calculating metrics used by company executives. Created a **CI/CD** pipeline in **GitLab** to automate deployment and test
- Advanced several internal projects used enterprise-wide by updating and improving them
- Learned and utilized **Docker**, **Kubernetes**, and **Helm** to deploy telemetry applications
- Utilized **antlr4** to create a grammar and parser in order to eliminate all known bugs in one of our internal applications
- Developed and managed an application with a tech stack of **Angular**, **Node.js**, **Java Spring** and a **PostgreSQL** database with tests in **JUnit** and **Karate**

Projects

Virtual Quiz	2016 – Present
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- Created a web application as a fundraiser for Quizbowl Club at Iowa State. The application allows local area high schools to compete in a virtual tournament. Replaced the previous application that used Visual Basic
- Constructed using **TypeScript** with **Angular**, **JavaScript** with **Node.js** and **Express**, and **MongoDB**, all running on **Heroku**
- Participation tripled after switching to the new application

Education

Richardson, TX	University of Texas at Dallas	2026
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- M.S. in Computer Science

Ames, IA	Iowa State University	2019
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- B.S. in Computer Science with Minor in Russian Studies
- B.S. in Mathematics

Publications

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- Co-authored “Apollonian Ring Packings,” published in the book *Connections in Discrete Mathematics*

Languages and Technologies

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- Languages: Java, Kotlin, C, TypeScript, JavaScript, HTML, CSS, Python, SQL, Mathematica, Bash
 - Frameworks and Libraries: Spring, Node.js, Express.js, Scikit-Learn, PyTorch, Angular 2+, Jasmine, JUnit, Karate
 - Tools: Git, Linux, Docker, Kubernetes, Helm, AWS(Sagemaker, S3, EC2), Gradle, Maven, GitLab CI/CD, JWT
 - AWS Certified Cloud Practitioner