

TIMOTHY WILLIAMS

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CERTIFICATIONS

Oracle – Java Associate Programmer Certification	Oct 2023
C++ Institute – C++ Certified Associate Programmer Certification	Sep 2023
IBM – Back-End Developer Professional Certification	Jun 2023
Meta – Front-End Developer Professional Certification	Apr 2023

WORK EXPERIENCE

Geek Squad Agent <i>Best Buy</i>	Jul 2023 – Present <i>Flower Mound, TX</i>
<ul style="list-style-type: none">Completed intake and pick-up operations diagnosing technical issues and communicating to clients the problems and what steps were taken to resolve the issues.collaborated with team members to diagnose and resolve technical issues, troubleshooting and repairing both software and hardware related problems.Assisted in the development of client intake system increasing productivity and reducing overall wait times by roughly 30%.	
Legal Intern <i>FR Law Group</i>	Dec 2021 – May 2022 <i>Phoenix, AZ</i>
<ul style="list-style-type: none">Tracked, managed, and updated court cases as they moved through the numerous stages of the judicial system.conducted legal research on precedents, judgements, and case law integrating the findings into legal documents and research reports used by various practicing attorneys in filed court cases.Increased efficiency through the creation of document templates removing unnecessary repetitious work.	

EDUCATION

Hack Reactor <i>Advanced Software Engineering Certificate</i>	Dallas, TX Nov 2022 – Feb 2023
<ul style="list-style-type: none">Learned in depth about numerous languages libraries, and frameworks putting them to use on various projects.Collaborated in teams to create and refine projects using agile and scrum methodologies.	
Arizona Christian University <i>Bachelor of Science in Political Science</i>	Glendale, AZ Aug 2018 – May 2022
<ul style="list-style-type: none">Achieved a GPA of 3.86 graduating with the highest distinction Summa Cum LaudeCompeted on the Track and Cross Country teams all four years earning Scholar Athlete recognition every year.Team captain for 2 years contributing to the creation of a welcoming and performant culture.	

SOME PROJECTS

Budget App <i>Java, Spring Boot, Angular, Postgres, Azure, Apache Tomcat, JPA, SCSS</i> Github.com/orgs/Budget-App-Project/repositories	Feb 2023 – Apr 2023
<ul style="list-style-type: none">Built secure Java back end with Spring Boot, JWT, JPA, Apache Commons CSV, and PostgreSQL database Implementing JWS authentication with RS256 encryption working in conjunction with Angular Router on the front end for secure access to protected routes exclusively accessible to logged-in users.Created the ability to download budget data as CSV using Apache Commons CSV and Angular HttpClient.Designed and implemented front end using Angular, Angular Router, Angular Material, SCSS, and Chart.js.Deployed on Microsoft Azure running an Apache Tomcat web server Load tested to handle over 900 RPS.	
The CampSite <i>React, Redux, AWS, OAuth 2.0, MongoDB, Express, Node.js, TailwindCSS</i> Github.com/WilliamsTim/TheCampSite	Dec 2022 – Jan 2023
<ul style="list-style-type: none">Designed, wireframed, and created both the front end and back end with a team of 5 other Software developers.Implemented state management with Redux and third party user authentication following OAuth 2.0 standards.Utilized CircleCI for continuous integration and pipeline tracking.	

TECHNICAL SKILLS

Languages: Java, Python, C++, SQL, JavaScript, HTML, CSS, TypeScript

Frameworks: Angular, Node.js, Flask, JUnit, Material-UI, Express, Next.js, Vite, Spring Boot, Django, Jest, Mocha, Puppeteer, PyTorch

Libraries: pandas, NumPy, Matplotlib, jQuery, Redux, JWT, Chai, React, SCSS, Chart.js, OpenSSL, OpenCV, TensorFlow, Keras, YFinance

Platforms and Tools: Git, Docker, Google Cloud, VS Code, Visual Studio, IntelliJ IDEA, Eclipse, Apache Tomcat, AWS, Nginx, Azure, NPM, Babel, Webpack, Maven, Gradle, PostgreSQL, MongoDB, Kubernetes, Sanity, Vercel

Standards, Methodologies, and Design Structures: NoSQL, OAuth 2.0, Microservices, Serverless, Containerization, RESTful API, Agile, Scrum, CMS

MORE PROJECTS

Bornean Orangutan | *RESTful API, AWS, Nginx, PostgreSQL, Express, Node.js*

Nov 2022 – Dec 2022

[Github.com/Bornean-Orangutan/Ratings-and-Reviews-API](https://github.com/Bornean-Orangutan/Ratings-and-Reviews-API)

- Designed and implemented Express, Node.js, PostgreSQL, and Blobstorage back end running on AWS EC2 T2 micro instances and an S3 bucket for storage of both text and images.
- Migrated a database with over 30 million rows to PostgreSQL using batch processing.
- Optimized performance using Nginx load balancer running 4 EC2 T2 micro instances and an S3 bucket achieving 1350 RPS with an average response time of 63ms versus 400 RPS and 100ms previously.

StockGPT | *Python, Pytorch, TensorFlow, Keras, Pandas, NumPy, OpenPyXL, YFinance*

Jul 2022 – Aug 2022

[Github.com/WilliamsTim/StockGPT](https://github.com/WilliamsTim/StockGPT)

- Designed and created GPT AI to make inferences about future stock prices primarily using PyTorch and TensorFlow.
- Implemented spatial self-attention allowing for the capture of dependencies across a 2 dimensional data set allowing it to function on more than one concurrent data series.
- Created a system of data preprocessing with NumPy and Pandas and tokenization with PyTorch in order to normalize input data to facilitate greater model efficiency and accuracy.

Portfolio | *Next.js, TypeScript, Sanity, CMS, TailwindCSS, Vercel, Material-UI, React*

Jan 2023 – Apr 2023

[Github.com/WilliamsTim/portfolio](https://github.com/WilliamsTim/portfolio)

- Created with Next.js for the fastest possible performance by utilizing server-side rendering and Sanity CMS for modularization and easy alteration and modification of components.
- Constructed with TypeScript for strict typings and deployed to Vercel and connected through name servers to the domain timothywilliams.us.