Gabriel Dunlop

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Skills

- Bizzdesign | JavaScript | HTML | CSS | Python | NodeJS | Express | Bootstrap | Flask | Git
- MongoDB | Postman | Windows Powershell | Linux Kernel | ZAP Security
- AWS Services | Frontend | Backend | Full-Stack | 150 WPM | English

Experience

Solutions Architect **Ally Financial** *Charlotte, NC, USA* **08/2024 - Present**

- Led enterprise architecture modeling projects at Ally Financial utilizing Bizzdesign to streamline and align enterprise operations with technological solutions
- Conducted comprehensive security compliance and testing using Threatmodeler to identify and mitigate potential risks in enterprise systems
- Leveraged AWS services to support scalable, cloud-based solutions, ensuring system reliability and performance
- Developed and tested robust synthetic data solutions by populating and managing databases using Python with the Faker library, ensuring reliable and diverse test datasets
- Enhanced development pipelines through GitLab integration for continuous testing, optimizing build, test, and deployment processes for agile workflows

Intern **ADT** *Boca Raton, FL, USA* **11/2020 - 12/2021**

- Implemented scripts for deleting mass entries with no longer affiliated vendors
- Communicated extensively using **Microsoft** tools and software
- Collaborated and contributed to the project while working remotely, demonstrating strong communication and self-management skills in a distributed team environment

CAP Stone Developer **UNCC - Senior Project** *Charlotte, NC, USA* **01/2024 - 05/2024**

- Directed the Capstone project team in developing a RoadTrip Website aimed at assisting travelers worldwide in planning and saving trips
- Leveraged **Python** and **Flask** for backend development, integrating **SQL** for database management
- Designed intuitive frontend interfaces using **HTML**, **CSS**, and **Bootstrap** to enhance user experience and engagement
- Integrated Google Maps API for location services and dynamic weather API for real-time weather updates, enhancing trip planning capabilities

Educational Software Engineer **UNCC - GRADUATE CLASS** *Charlotte, NC, USA* **01/2024 - 05/2024**

- Led development of an enterprise-grade web application, generating a mental health application using JavaScript, HTML, and CSS alongside frameworks such as **Express.js** and **MongoDB** with Mongoose ORM
- Implemented robust security measures including **Bcrypt** and express-validator for secure authentication and input validation
- Architected RESTful API endpoints with **Express.js**, **methodOverride**, and session management for seamless user experience
- Enhanced development workflow with logging, middleware, and cross-browser compatible responsive design
- Continuous Integration/Deployment Pipeline Integration, pull requests, code reviews, load/stress testing

Education

Bachelor of Science **University of North Carolina at Charlotte** *Charlotte, NC, USA* **08/2019 - 05/2024**

- Major in Computer Science in Software Engineering

Projects

- **MINDFULL MEET:** Co-Creator of a mental health website with public resources (JS, HTML, CSS). Link to Project **(04/2024)**
- **ROAD-TRIP:** Designed a Travel website using various APIs with a team (Python, SQL, HTML, CSS). Link to Project **(05/2024)**

Certifications

- **AWS**: Certified Cloud Practitioner **(09/2024)**
- **AWS**: Solutions Architect Associate **Expected (01/2025)**