

# Gabriel Dunlop

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## Skills

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

## Experience

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

- Designed and 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

**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

**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
- Collaborated closely with team members to implement features such as trip saving and sharing, itinerary management, and route optimization

**Application Security** UNCC - App Security *Charlotte, NC, USA* **01/2024 - 05/2024**

- Actively engaged in an Application Security class, specializing in identifying and mitigating vulnerabilities such as **XSS** attacks, **SQL** injections, and **Path Manipulation** exploits
- Demonstrated proficiency in performing simulated attacks to assess application security, including executing XSS attacks and SQL injections to uncover potential weaknesses
- Utilized tools like **OWASP ZAP** to generate detailed reports and analyze findings, enabling comprehensive assessment of security posture and prioritization of remediation efforts

## Education

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

- Major in Computer Science in Software Engineering

## Projects

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- **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)