

Brett T. Rosenberg

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My Portfolio Website: <https://brettrosenbergdev.com/>

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EDUCATION

University of Central Florida *Bachelor of Science in Computer Science*

Expected Graduation: May 2026

- **GPA:** 3.8, Dean's List
- **Campus Involvement:** Hack@UCF, Knight Hacks, STEEL, EXCEL/Compass
- **Relevant Coursework:** Processes of Object-Oriented Software, Machine Learning, Enterprise Computing, Discrete Math

RELEVANT EXPERIENCE

Universal Orlando Resort | *Mobile Developer Intern*

June 2025 – December 2025

- Addressed a persistent efficiency gap highlighted by a ~60% reroute rate in mobile support tickets by delivering the AI-105 triage system, enabling more accurate classifications, routing decisions, and escalation summaries using MCP-based service routing
- Increased architectural consistency across mobile and backend systems by defining a unified Flutter middleware API design using OpenCode and the enterprise AI Gateway, (OpenRouter).
- Accelerated pilot readiness by producing functional Flutter prototypes that support structured text/image inputs and real time analysis output
- Enhanced automation capability and engineering maturity by creating n8n workflows (consistent-character/background and sentiment analysis) and securing external validation through a technical review of AI-105 design with Microsoft consultants

PEDIATRIX | *Computer Science Intern*

May 2023 – August 2023

- Contributed within a cross-functional team of 5 engineers, following the adoption of Test-Driven Development(TDD) in Python using Visual Studio Code, which resulted in reduction in post-deployment bugs and streamlined version control using GitHub
- Analyzed and corrected a database of over 10,000 outdated emails using SQL queries and Linux scripts, improving communication accuracy and reducing bounce rates
- Deployed containerized Python applications to Azure environments using Docker, contributing to backend service scalability and integration workflow

PROJECTS

UDX Ride Assistant | *AI-Powered Mobile App – Flutter and Python*

- Built a cross-platform ride assistant in Flutter/Dart with a Flask backend, integrating queue data, location, and optimized routing to recommend attractions
- Prototyped an AI chatbot using LLMs to deliver personalized ride/dining suggestions with session memory, designed for integration into the Universal mobile app
- Initiated the project independently, showcasing technical initiative and ability to bridge product ownership with mobile development

FitJourney | *Mobile App Developer – Flutter and CI/CD Pipelines*

- Developed a Flutter fitness tracker synced via RESTful Node.js/Express APIs
- Built CI/CD pipelines with GitHub Actions; assisted in staging and production releases; participated in Agile sprints and Jira reviews

CAMPUS INVOLVEMENT

Machine Learning Published Research Author & AACE 2025 Co-Author | *Undergraduate CS Department Research* May 2024 – May 2025

- Served as data lead and co-author on the AACE 2025 e-poster “Assessing the Severity of Hypoglycemia and Recovery Time to Normoglycemia in Older Adults with Type 1 Diabetes using CGM data: Machine Learning insights from the WISDM Study,” translating CGM data into actionable machine-learning insights
- Designed and implemented end-to-end Python Machine Learning pipelines (regression models, decision trees, XGBoost) on a 10,000+-record patient dataset to uncover critical hypoglycemia risk factors
- Presented in-person findings and data visualizations to AdventHealth executive leadership, whose feedback drove the poster's development and conference presentation

SKILLS

- **Programming & Frameworks:** JavaScript/TypeScript, Node.js, Express, React.js, Python, Java, C/C++, C#, Swift, R, HTML/CSS, Dart/Flutter, Shell scripting, REST APIs
- **Infrastructure & DevOps:** MySQL, PostgreSQL, MongoDB, Azure, Snowflake, DigitalOcean, Docker/Compose, GitHub Actions, Linux
- **ML & AI:** OpenAI API, NumPy, Pandas, scikit-learn, XGBoost, regression models, decision trees, cross-validation, hyperparameter tuning, n8n, LLMs(GPT-5, Gemini, Llama 3.1), prompt engineering, LangChain, GenAI & MCP integration
- **MarTech & Analytics:** CLV, Claravine, Adobe Launch/Target/Experience Platform/Journey Optimizer, Salesforce Marketing Cloud,
- **Tools & Practices:** VS Code, Postman, SwaggerHub/OpenAPI, Git/GitHub/Pages, GitLab, Jira, Xcode, Android Studio, Citrix, ServiceNow, MS Office Suite, Agile/Scrum, TDD, OOP