Desmond Trotter

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SUMMARY

Desmond is a Computer Information Systems student with full-time employment and internship experience, skilled in technical development, application support, program debugging, and systems analysis. He is seeking full-time software development, data analysis, & project management opportunities.

WORK EXPERIENCE

UH Advanced Learning, Artificial Intelligence (AI) and Control   Houston, Texas
Autonomous Drone Debugger – Undergraduate Research Assistant   May 2025 – July 2025

- Collaborated in a 6-person team to deploy AI-powered drone systems, reducing aircraft energy consumption by 25%
- Self-taught drone hardware and Python-coded software within 3 weeks to develop an autonomous control system
- Developed 4 basic machine learning Python projects to share foundational AI knowledge with the team, reducing model development time by 15%

LZ Technology, Inc – National Aeronautics and Space Administration Johnson Space Center   Houston, Texas
Flight Operations – Procedures Management Programmer Intern   May 2024 – December 2024

- Proposed 3+ interface updates to an automated Python procedure emailing tool, increasing tool usability by 15%
- Deployed an acronym database in SharePoint with 250+ entries, reducing acronym search time by 30%
- Updated 3+ XML procedures weekly for flight tests, enhancing crew training efficiency by 18%

Trotter Consulting, Incorporated   Dallas, Texas
Information Technology Programmer Analyst   November 2019 – Present

- Relayed 3+ phishing emails weekly, reducing 60% breaches to support company threat detection & response times
- Designed and presented 2+ potential company websites to promote services and customer acquisition
- Reported 40+ QuickBooks entries monthly to make profit & loss balance sheet details readily available, enabling quicker financial decision making

LEADERSHIP

University of Houston, National Association of Black Accountants   Houston, Texas
Membership Development Director   January 2024 – May 2024

- Educated 15+ business students monthly about business internship opportunities at Ernst & Young & Deloitte
- Coordinated volunteer events with 3+ nonprofit organizations for business students, fostering community engagement
- Connected our membership network to 10+ business professionals and recruiters to share internship opportunities

ACADEMIC PROJECTS

Stock Brokerage System – *Advanced Information Systems Development Course*

- Designed 10+ site pages for stocks & bonds management using HTML, CSS, & JavaScript, enhancing user experience
- Implemented Amazon Web Services Relational Database Service to store 30+ stock brokerage data entries, improving data accessibility
- Coded 10+ Python APIs to create, update, or delete stock brokerage information, streamlining database interactions
- Established a server using Node.js & Express.js for data processing, enhancing system efficiency

SKILLS

Tools, Platforms, & Technical Knowledge	ChatGPT, CoPilot, Amazon Web Services	Git, Postman, Wireshark, Node.js, Express.js, REST APIs
Certifications	Oracle Cloud Infrastructure 2023 Certified Foundations Associate	Innovation Engineering Blue Belt, Microsoft Office Specialist: Word/Excel/PowerPoint 2016
Programming Languages	Python, HTML/XML, JavaScript, CSS, C, SQL, Visual Basic for Applications	Oracle & Microsoft SQL Server databases, Linux/UNIX Shell Programming

EDUCATION

University of Houston (UH) Cullen College of Engineering – Houston, Texas   **December 2025**
Bachelor of Science in Computer Information Systems | **C.T. Bauer College of Business** Entrepreneurship Minor
GPA: 3.6 | **Activities / Organizations:** Study Abroad STEM Program (Johannesburg, South Africa), Omicron Delta Kappa, National Society of Black Engineers, Future Information Technology Personnel, Black Male Engineering Network

Collin College – McKinney, Texas **|** Associate of Science in General Science   **December 2021**