

# Christian Downs

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## Key Technical Skills

### DevOps & Cloud Platforms

- **Cloud Computing:** AWS (EC2, RDS), GCP (BigQuery, Cloud Functions, Cloud Run)
- **Infrastructure as Code (IaC):** Terraform, Kubernetes, Docker
- **CI/CD Pipelines:** GitLab CI/CD, GitHub Actions, Jenkins, Vercel
- **Monitoring & Automation:** Jira, Agile Scrum

### Full-Stack Development

- **Programming Languages:** Python, Java, C#, JavaScript (React, Angular, Node.js), PHP, C++, C
- **Backend Frameworks:** .NET, Spring Boot, Flask
- **Frontend:** React, Angular, Bootstrap, HTML, CSS, JavaScript
- **Database Management:** PostgreSQL, SQL Server, BigQuery, Clickhouse
- **Automated Testing:** Python Cucumber, Selenium

## Notable Projects

### AutoSAS

- Using Python Flask and ChatGPT to create a website that creates Python Flask applications that the user requests. Application will be tested and fixed for any compiling errors.

### URCA Project using SLAM computer vision and UAV routing

- Creating and implementing an autonomous UAV system leveraging SLAM algorithms for real-time mapping and obstacle avoidance.

### Memorable Nights.VIP | Full-Stack Development & DevOps

- Developed a **React-based website** for a tent rental business using **Vercel** for CI/CD.
- Optimized cloud hosting for **cost-effectiveness**, enabling seamless deployments with minimal overhead.
- Implemented **automated cloud deployment** with Vercel, streamlining updates & scalability.
- GitHub: [Memorable Nights](#)

## Education

### Bachelor of Science in Computer Science

Southern Illinois University Edwardsville (SIUE)

**Expected Graduation: May 2026**

### C#/.NET Full Stack Developer Certification

Claim Academy

**Graduated August 2020**

### Associate in Liberal Arts

Southwestern Illinois College –

**Graduated July 2020**

## Awards & Achievements

**Recognized as a problem-solver at UST, frequently sought after for resolving critical technical issues efficiently.**

**Automated a week-long manual process at Mattel**

**"Most Valuable Programmer" at Revature** – Awarded for leading a team in developing a microservices-based application and resolving complex system issues under tight deadlines.

## Professional Experience

### Full-Stack JavaScript and Java Mentor/Instructor – Claim Academy, Inc

February 2022 – Present

- Teach and mentor a cohort of 15 students in full-stack **JavaScript** and **Java** technologies, including **React/Angular, Node.js**, and **oMongoDB**.
- Provide hands-on guidance with **AWS** deployments, ensuring students learn real-world cloud practices.
- Transitioning to a full instructor role, leading curriculum development and live classroom sessions.
- Facilitate pair programming, code reviews, and project-based learning to help students build production-ready applications.

### Software Automation Engineer – Mattel, Inc

May 2022 – Present

- Led automation initiatives, reducing manual workloads across departments.
- **Revolutionized payroll invoice processing** by automating data workflows using **Python & GCP** (Cloud Functions, Cloud Run, BigQuery), reducing processing time from a **week-long process to seconds**.
- Designed a scalable **data management framework in BigQuery** and used **Pandas** for reading and processing Excel and CSV files, improving data ingestion and automation.
- Integrated **CI/CD pipelines (GitLab)** to streamline deployment and increase efficiency.

### DevOps & Full-Stack Engineer – UST Global via Revature

June 2021 – January 2024

- Led a team developing a **Java-based backend** project suite, integrating PostgreSQL & Clickhouse for optimized data storage, while also building a **project management tool** using **Groovy, HTML, CSS, and JavaScript** for project leaders to review multiple data sources.
- Automated **ETL processes** across Jira, Jenkins, and Azure using **Java and Groovy**, parsing and structuring data from SQL databases for visualization.
- Implemented **Terraform scripts for AWS**, reducing infrastructure provisioning time from **hours to seconds**.
- Architected **scalable microservices** applications using **Docker & Kubernetes** for high-performance applications.
- Developed a **Sprint Burndown Widget** using **Chart.js, Groovy, and JavaScript**, which analyzed sprint data from multiple sources and **predicted future scrum performance**, even without tickets, aiding in sprint planning.
- Managed **AWS cloud infrastructure** (EC2, RDS), ensuring resilient and secure deployments.

### Java/Angular Full Stack Developer – Revature

Feb 2021 – Jan 2024

- Developed a **microservices-based management app** using **Java, Spring Boot, Angular, AWS** (ECS, RDS).
- Improved automated testing coverage using **Python Selenium & Cucumber** for QA processes.
- Recognized as **Most Valuable Programmer (MVP)** for project leadership & technical problem-solving.