

# Eric L. Dobbs

Adjunct Instructor | Software Engineering Educator | Technical Evaluator

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## PROFESSIONAL SUMMARY

Adjunct instructor and software engineering professional with 20+ years of industry experience in enterprise application development, distributed systems, and modern software engineering practices.

Specializes in teaching programming fundamentals, object-oriented design, and real-world application development using Java and Python. Experienced in guiding students through structured problem-solving, debugging, and practical software development workflows aligned with industry expectations.

Brings a unique combination of **deep industry expertise, instructional delivery, and technical evaluation experience**, helping students connect foundational concepts to real-world engineering requirements.

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## TEACHING EXPERIENCE

### Gwinnett Technical College — Adjunct Professor (Programming Languages)

*2024 – Present*

- Teach foundational and intermediate programming courses covering Java, Python, and object-oriented programming principles
- Design and deliver curriculum focused on **practical software engineering skills**, including debugging, testing, and version control
- Guide students through flowcharting, pseudocode, and structured problem-solving techniques
- Develop hands-on coding labs that simulate real-world development environments and workflows
- Evaluate student performance and provide targeted feedback to strengthen logical reasoning and coding proficiency
- Mentor students pursuing internships, certifications, and entry-level software development roles
- Incorporate real-world technical screening criteria into instruction to better prepare students for industry interviews

- Emphasize code clarity, problem articulation, and debugging strategies aligned with employer expectations
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## TECHNICAL EVALUATION & INDUSTRY ALIGNMENT

### Technical Screener — Apex Systems

*2020 – Present*

- Conduct technical assessments for mid-to-senior level engineering roles across Java, Spring Boot, Python, AWS, and SQL
  - Proctor live coding exercises evaluating problem-solving ability, code quality, and debugging skills
  - Assess candidate proficiency in system design, architectural thinking, and real-world application development
  - Identify strengths and gaps in technical competency, including code structure, efficiency, and communication clarity
  - Provide structured hiring recommendations based on depth of understanding and practical capability
  - Evaluate candidate responses in the context of AI-assisted development, ensuring authenticity and reasoning ability
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## INSTRUCTIONAL FOCUS & APPROACH

- Emphasize **conceptual understanding over memorization**
  - Bridge classroom instruction with **real-world development practices and hiring expectations**
  - Reinforce problem decomposition, algorithmic thinking, and clean code principles
  - Introduce students to industry-relevant tools (version control, debugging workflows, testing concepts)
  - Encourage collaborative learning through guided coding exercises and project-based assignments
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## INDUSTRY EXPERIENCE (SUMMARY)

Senior software engineering professional with extensive experience designing and developing enterprise applications across multiple industries, including telecommunications, insurance, hospitality, and energy.

Core experience includes:

- Java and Spring Boot application development
- Microservices architecture and RESTful API design
- Database design and integration (SQL-based systems)
- Cloud platforms and modern development workflows
- Full-stack application development across UI, service, and data layers

Selected engagements include work with organizations such as GuideHouse, Georgia System Operations Corp (GSOC), CGI, and multiple enterprise clients through consulting engagements.

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## **SELECTED PRACTICAL PROJECTS (STUDENT-RELEVANT)**

### **AI-Powered Application Development**

- Designed and built applications leveraging AI-generated content workflows
- Demonstrate real-world integration of modern technologies into practical solutions

### **Web-Based Application Systems**

- Developed full-stack applications using Java, REST APIs, and frontend frameworks
- Provide real-world examples to illustrate system design and application architecture

### **Mobile & Progressive Web Applications**

- Built mobile-first and offline-capable applications to demonstrate modern application patterns
  - Use real-world scenarios to teach usability, workflow design, and system constraints
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## **TECHNICAL SKILLS**

**Languages:** Java, Python, SQL

**Frameworks:** Spring Boot, RESTful Services

**Databases:** PostgreSQL, MySQL, Oracle, SQL Server

**Tools & Platforms:** Git, Docker (conceptual/practical exposure), CI/CD pipelines

**Frontend Exposure:** Angular, React

**Concepts:** Object-Oriented Programming, Data Structures, Algorithms, Debugging Techniques

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## EDUCATION

**Master of Science in Information Science** — University of Phoenix

Focus: IT Strategy, Digital Transformation & Software Development

**Bachelor of Science in Computer Science / Business** — Southern New Hampshire University

**Computer Science Studies** — Clark Atlanta University

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## DIFFERENTIATORS

- Combines real-world enterprise experience with classroom instruction
  - Actively evaluates engineering talent, bringing current hiring expectations into the classroom
  - Focuses on preparing students for **practical software development roles**
  - Strong emphasis on problem-solving, debugging, and foundational understanding
  - Ability to translate complex technical concepts into accessible learning material
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