

CLUBS

- **ASCII: Appalachian Society for Computing, Informatics, and Innovation**
- **Women in Computer Science**
- **Game Development Club**
- **Mountain Linux**
- **AI & Machine Learning**

CS BY THE #S

350 Bachelor's Students

25 Master's Students

8 Tenured Faculty

6 Tenure-track Faculty

6 Lecturers

1 Post-Grad Researcher

OPPORTUNITIES

CS Honors Program

Accelerated Masters

Study Halls

Internship

Instructional Assistant

Tutoring

Scholarships



Current Research

Mobile & Web app development

Programming language theory

Data science visualization

Explainable AI

AI models for health sciences

Robotics

Reconnaissance phase cybersecurity

Honeybee hive health informatics

"Smart City" mesh networking

Machine learning for flood mapping

and more!

Department of Computer Science

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COMPUTER SCIENCE



**College of Art and Sciences
Appalachian State**

LEARNING

Software Dev & Design

Java, C, C++, Python and more
MySQL and Hadoop databases
Design Principles and Patterns

Theoretical Foundations

Algorithm Complexity
Data Structures (trees and graphs)
Finite state machines

System Fundamentals

Data representations
Process execution including memory
management, scheduling, system calls
Micro architecture including CPU, ALU,
logic gates, buses, microcode

Artificial Intelligence

Data acquisition, visualization,
machine learning



QUALITY & GROWTH

WORKING

Local: App State, ECRS, Overmountain
Studios

Piedmont: Sara Lee, Sunrise, Inmar,
Wells Fargo

Charlotte: Lowe's, Premier, Duke
Energy, Microsoft

RTP: IBM, SAS, Red Hat, Fidelity,
SECU, Cisco

National: Google, Amazon, Eastman,
CGI, Apple, Microsoft

Sectors

Banking, Finance, Healthcare,
Transportation, Software Services,
Web, Security, Energy, Avionics

**Median Post-Graduation
Salary: approx. \$77k**

