

Roy Chancellor

Java developer | Problem solver | Highly coachable | Lifelong learner

Tenacious problem solver with 20+ years in engineering and mathematics education and 3+ years total experience in Java and C programming. Fueled by a deep desire to understand how things work and to write clean and maintainable code. Thrive in team environments working on common goals. Highly motivated to learn and be mentored.

Experience

2019	<div>Java and C Development<ul style="list-style-type: none">Four semesters (16 credit-hours) core Java object-oriented programming emphasizing back-end applications (Sept 2019 expected)Developed Java banking application with object-oriented class structures using Maven build tool in Eclipse IDE, including JUnit tests and JavadocsCreated a Java vending machine management system with a lean, fast team using the agile scrum methodology: developed user stories, planned sprints, managed product backlog, and ran daily stand-upsAutomated modem testing with C programs that reduced test time by 50%Wrote numerous C programs to simulate dynamic systems and acquire data from electronic devicesFamiliar technologies: Java, C, Eclipse, Maven, git, GitHub, SQL, Spring, data structures, algorithms, JUnit, SDLC, agile, scrum</div>
2015	<div>Engineering Professional <i>1993 - 2006 and 2013 - 2015</i> 15 years improving products across the entire life cycle <u>Problem Solving</u><ul style="list-style-type: none">Solved shock-induced PCB cracking by designing a unique stiffener that enabled flight qualification on scheduleIncreased machine uptime by 25% by developing a program to send machine-down alerts to operatorsDrove customer complaints for brightness variation of automotive EL lamps to zero by co-leading a rapid problem-solving team<u>Six Sigma Master Black Belt</u><ul style="list-style-type: none">Led a corporate-level team of black belts that completed projects across the company netting > \$1M savings over 3 yearsSolved and prevented numerous quality problems across the product life cycle that led to increased yield and happier customers<u>Modem Test Programmer</u><ul style="list-style-type: none">Reduced satellite modem testing time by > 50% by writing C-language programs to automate test functions <u>Employment History</u><ul style="list-style-type: none">Manufacturing Engineer, Schweitzer Engineering Laboratory (2013 - 2015)Statistician, Intel Corporation (2005 - 2006)Six Sigma Master Black Belt, Rogers Corporation (1999 - 2005)Mechanical Engineer, Orbital Sciences Corporation (1998 - 1999)Process Engineer, W.L. Gore and Associates (1994 - 1998)Modem Test Programmer, EF Data (1993 - 1994)</div>
2006	<div>Mathematics Educator <i>2006 - 2013 and 2015 - 2019</i> 11 years classroom teaching and school leadership <u>Organization, Leadership, and Communication</u><ul style="list-style-type: none">Saved uncountable hours of teacher preparation by creating and sharing curricula spanning Algebra 1 through Calculus 2Designed the annual master school schedule by solving dozens of logic conflicts and validating with VBA code before deploymentMentored math teachers with formal and informal observations, including one who became a master teacher</div>

Personal Info

Address 2014 East Anderson Drive Phoenix, Arizona 85022
Phone 480.242.6356
E-mail roychance600@gmail.com
Portfolio Site roychancellor.me
GitHub github.com/roychancellor
LinkedIn linkedin.com/in/roychancellor
Skills <div><div>Core Java: Skilled at writing object-oriented code that is clean and maintainable with a focus on understanding the core Java language<div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div>C and C++: Wrote code to acquire & display data from A/D cards, communicate through RS-232, simulate dynamic systems, and control electronic devices<div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div>Data analysis: Skilled at JMP and Minitab to analyze complex data sets across a variety of disciplines<div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div>Front-end: Able to use HTML and CSS to create web pages; basic proficiency in JavaScript to create dynamic sites.<div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div>Python: Basic skills acquired through online course<div><div></div><div></div><div></div><div></div><div></div><div></div></div></div></div>

Courses

Java Programming I, II, and III
Open Source Computing
C Programming
Regression Analysis I and II
Design of Experiments I and II
Theory of Statistics I and II
Introduction to Numerical Methods
Mechatronics (embedded control)

Employment History

- **Master Teacher of Mathematics** , Great Hearts Academies (2010 - 2013 and 2015 - 2019)
- **Mathematics Teacher** , Great Hearts Academies (2008 - 2010)
- **Mathematics Teacher** , Scottsdale Unified School District (2006 - 2008)

Education

2019	<p>Certificate in Java Programming, Grand Canyon University</p> <ul style="list-style-type: none">• 16-credit hours of core Java language and object-oriented principles• Frameworks and tool exposure includes Eclipse, Maven, Spring, SQL, AWS, REST, HTML, CSS, React, git, GitHub• Immersion in the full software development life cycle (SDLC) using agile scrum methodology
2004	<p>Graduate Certificate in Statistics, Rochester Institute of Technology</p> <ul style="list-style-type: none">• Developed theoretical and practical skills in regression analysis and modeling, time series and forecasting, product reliability, and design of experiments
1993	<p>M.S. Mechanical Engineering, Texas A&M University</p> <ul style="list-style-type: none">• Thesis: <i>Parameter Identification Using Nonlinear Dynamics and Chaos</i> (article published in the <i>ASME Journal of Vibration and Acoustics</i>, July 1996)• Wrote thousands of lines of C code that simulated dynamic systems, acquired data from electronic devices, processed data using FFT, and graphically displayed data• Co-created a micro controller-based active-damping system for a 1/4 car suspension by writing embedded C code that implemented PID control
1991	<p>B.S.E. Mechanical Engineering, Arizona State University</p>