RESUME Robert Tacescu

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Qualifications Summary:

Computer science student with significant programming experience and a passion for technology.

Key Skills:

- Software Development (Linux and Windows): Java, C++, Python, ROS (Robot Operating System), Gazebo (robotics simulation), MySQL, Matlab / Octave, Git, HTML, JavaScript, Full-Stack Web Development (Bootstrap 4, React, React Native, NodeJS, MongoDB), Data Structures, Machine Learning, TensorFlow 2.0
- Robotics: Programming, Design, Build, Wiring
- CAD (3D Modeling): SolidWorks, Autodesk Inventor

Projects:

- **2019: Bear Image Classification:** www.rgtac.com/ai
  Transfer Learning with TensorFlow 2.0
- **2016-2018: Safecopter Project:** www.rgtac.com/safecopter
  Developing a Collision Avoidance System Based on an Array of Time-of-Flight 3D Cameras (C++, Python, ROS, Gazebo, Linux)
- **2018: FIRST FRC Robotics** Team 6305: Programming Team Leader (Java and Python)
- **2017: FIRST FRC Robotics** Team 2761: Programming Team Leader (Java Robot Programming, Vision-based targeting system)
- **2017: FTC (FIRST Tech Challenge) Mentor** at Granite Ridge Middle School
- **2016: FIRST FRC Robotics** Team 2761: Programming Vision-based targeting system (Java)
- **2016: FLL (FIRST Lego League) Mentor** at Granite Ridge Middle School
- **2015: FIRST FRC Robotics** Team 2761: Programming Vision-based targeting system (Java)
- **2015: FLL (FIRST Lego League) Mentor** at Granite Ridge Middle School
- **2015:** Varsity policy debate, national extemporaneous, and impromptu
- **2014: FIRST FRC Robotics** Team 2761: Time Tracking software development (programmed in Java using a MySQL database backend)

Education:

- University of Massachusetts at Amherst: Graduating in 2022 with B.S. in Computer Science
- **2018:** Full-Stack Web Development Specialization (Bootstrap 4, React, React Native, NodeJS, MongoDB) on Coursera.
- **2017:** Machine Learning Course by Stanford University on Coursera
- **2016:** Fresno State Summer Programming Camp
- **2016:** Android Programming Course by Google
- **2013:** Java Programming Course: San José State University

- **AP Courses include**: AP Calculus AB, AP Calculus BC, AP Physics 1, AP Physics C, AP Computer Science, AP Economics, AP Statistics, AP Psychology, AP Literature, AP Language and Composition, AP Biology, AP World History
- **SAT:** 1580/1600 **ACT:** 35/36
- **GPA:** 3.5

Awards / Accomplishments: www.rgtac.com/awards

- **2018:** Safecopter Project: Developing a Collision Avoidance System Based on an Array of Time-of-Flight 3D Cameras – First place award from NASA at Intel International Science and Engineering Fair (ISEF) in Pittsburgh, Pennsylvania
- **2018:** Safecopter Project: Second place award from American Institute of Aeronautics and Astronautics (AIAA) at ISEF
- **2018:** Safecopter Project – Sweepstakes Award / First Place (all categories) at the 2018 Central California Science Mathematics & Engineering Fair. First Place in the category of Computer Science and Mathematics, Excellence in Science Award and four other special awards.
- **2017:** Safecopter Project: Third Place in the category of Robotics and Intelligent Machines at Intel International Science and Engineering Fair (ISEF) in Los Angeles, California
- **2017:** Safecopter Project – First place award from United States Air Force at ISEF
- **2017:** Safecopter Project – Second place award from NASA at ISEF
- **2017:** Safecopter Project – Sweepstakes Award / First Place (all categories) at the 2017 Central California Science Mathematics & Engineering Fair. First Place in the category of Computer Science and Mathematics
- **2017:** Team 2761 FIRST FRC Robotics Los Angeles Winner and Participation in 2017 FIRST FRC World Championship
- **2017:** TRAC and Valley Team Champions in tennis
- **2016:** Safecopter Project – Third Place in the category of Robotics and Intelligent Machines at Intel International Science and Engineering Fair in Phoenix, Arizona
- **2016:** Safecopter Project – First Place in the category of Computer Science and Mathematics, Second Place (all categories) at the 2016 Central California Science Mathematics & Engineering Fair
- **2016**: Second Place at California State University, Fresno Math Field Day
- **2016:** Team 2761 FIRST FRC Robotics Orange County Winner and Participation in 2016 FIRST FRC World Championship
- **2016:** TRAC and Valley Team Champions in tennis
- **2015:** Team 2761 FIRST FRC Robotics Ventura Regional Winner and Participation in 2015 FIRST FRC World Championship
- **2014**: First Place at California State University, Fresno Math Field Day

Hobbies:

- Computer science, tennis, skiing, archery

References: available upon request