

# Cody Vachon

## Respiratory Therapist Seeking Developer/Analyst Role

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### Summary

Cody Vachon is a Respiratory Therapist with the ability to adapt to changes in workflow and technology. He has an understanding of responsibilities in fast-paced and high-stress situations for efficient and effective care. He possesses impeccable attention to detail and uses algorithms and protocols. He has strong interpersonal skills for building rapport with healthcare teams and patients/families.

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### Education

#### Southern New Hampshire University

- Bachelor of Art in G.E. (General Education) in IT with a minor in Applied
- Associate of Science in Computer Science

#### Coursework:

- **2024-2025:** Software Test, Automation QA; COCE Integration.
- **2023-2024:** System Analysis and Design; DSA: Analysis and Design.
- **2022-2023:** Applied Statistics for STEM.
- **2021-2022:** Programming Languages; Operating Platforms.
- **2020-2021:** Foundations in Application Development; Discrete Mathematics; Software Development Lifecycle; Applied Linear Algebra.
- **2019-2020:** Computer Platform Technologies; Intro to Structured Database Environment; Intro to Linux Operating Systems.
- **2018-2019:** Statistics for Healthcare Professionals; Ethical & Legal Considerations; Perspectives in History.

#### Southern Maine Community College

- Associate of Science in Respiratory Therapy, 2015-2017.

#### Coursework:

- **2016-2017:** Neonatology and Pediatrics; Cardiovascular Assessment; Clinical Mechanical Ventilation; Clinical Practicum 3 & 4.
- **2015-2016:** Pathophysiology; Respiratory Therapy Patient Care; Pharmacology; Intro to Mechanical Ventilation.

#### Sanford Regional Technical Center

- Vocational School, Health Occupations (2012).

## Massabesic High School

- High School Diploma (2013).
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## Experience

### Respiratory Therapist/ECMO Specialist

- Portsmouth Regional Hospital | July 2024 - Present.
  - Registered Respiratory Therapist with expertise in patient assessment, cardiopulmonary anatomy & physiology, and pathology.
  - Skilled in fine motor techniques and ECMO management, including patient selection, circuit/oxygenator changes, and clinical reviews.
- Tufts Medical Center | August 2017 - June 2024.
  - As a Registered Respiratory Therapist III, aided with patient selection, management, and ECMO runs.

### CNA/CRMA

- Maine Veterans Homes | 2015-2017.

### Respiratory Care Practitioner Trainee

- Maine Medical Center | 2017.

### Peer Tutor

- Southern Maine Community College | 2017.
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## Key Achievements

- Adult Critical Care Specialist.
  - Level 3 NICU Experience.
  - ECMO Specialist.
  - Django Website Development.
  - GNAC Rookie of the Year (2013).
  - GNAC runner-up of the year/all conference (2013).
  - Most Valuable Player (2010-2012).
  - Maine State Class A Cross Country State Champion team (2012).
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## Projects

### C++ Vector Sorting & Parsing

- This C++ project efficiently sorts bid data from a CSV file using Selection Sort and Quick Sort algorithms. It features a custom CSVparser for data extraction and measures sorting performance. This demonstrates skills in data structures, algorithms, and file I/O for optimized data handling.

### Professional Website

- This Django portfolio showcases web development skills by integrating a responsive design with Python-powered backend functionality. It features dynamic content management for projects and skills, demonstrating proficiency in full-stack development and practical application deployment.

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## Skills

**Healthcare/Respiratory Therapy:** Basic Life Support, Adult Cardiac Life Support, Neonate Resuscitation Program, Conventional and non-conventional ventilator management strategies.

**Computer Science/Information Technologies:** Data Structures and Algorithms: Analysis and Design, Software Development Lifecycle, System Analysis and Design, Software Testing and Automation QA.

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## Publications and Presentations

**Case Study Presentation: Intubated patient with Interstitial Lung Disease, Severe Aortic Stenosis c/b Atrial Fibrillation RVR and Severe Hypoxia (2017).**

- Learning points: V/Q mismatch (shunt and dead space physiology), Type 1 Respiratory Failure mixed with hypertrophic obstructive cardiomyopathy.

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## Professional Associations and Affiliations

- Extracorporeal Life Support Organization (2016-Present).
- National Board of Respiratory Care (2016-Present).
- American Association Respiratory Care (2016-Present).

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## Extracurricular Activities and Achievements

- Timberman Half Ironman – Gilford, NH (2022).
- Pumpkinman Triathlon: 3rd place in division (2019).
- Pineland Farm 50 miler: 3rd place in division (2019).
- Timberman Half Ironman - Gilford, NH (2015).
- Beach to Beacon 10k - Cape Elizabeth, ME: Maine Men Elite (2015).
- Sebago Lake Triathlon - Sebago, ME: 1st place in division (2015).
- Saint Joseph's College Cross Country (2013).
- Massabesic High School Outdoor Track and Field (2010-2013).
- Massabesic High School Indoor Track and Field (2009-2012).
- Massabesic High School Cross Country (2009-2012).