**CS4RI**

**Fast Facts about Computer Science:**

* Computer Science is the study of computers and algorithmic processes, including their principles, hardware and software designs, implementation and impact on society. [ACM,2006]
* Computer Science is predicted to grow as an industry between 20% and 30% in the coming years
* There are 1500 job openings in computer science in Rhode Island
* Network Systems and Data Communications Analysts and Software Engineers are the fastest growing jobs

**Rhode Island Computer Science Companies:** Computer Science is found in almost every industry. From technical companies such as Trilix or MojoTech, to non-technical companies such as Amica or Lifespan, computer science plays an important role in the success in a variety of businesess.

**Examples of jobs in Computer Science:**

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| --- | --- | --- | --- |
| Job Title: | Software Developer | Web Developer | Computer and Information Research Scientists |
| Duties: | Creates software that allows users to perform tasks on various types of devices | Develops World Wide Web applications | Responsible for designing and developing new technology for a variety of fields |
| Typical salary range: | $60,000 - $123,000 | $50,000-$100,000 | $65,000 - $175,000 |
| Level of Education | Associates for entry-level | Bachelors | Masters |

**To prepare for a job in Computer Science while in High School and beyond:**

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| --- | --- | --- | --- |
| Sample Coursework: | Work-Based Learning opportunities: | Industry-recognized Credentials to earn: | Skills to build: |
| Strong math background. An introductory programming class, i.e. AP Computer Science or other course that introduces basic concepts of variables, decision structures, loops.  | Internships and apprenticeships are ideal but other options such as: job shadowing, working with a mentor, or club activities (like Cyber Patriots) are valuable. | CISCO CertificationMicrosoft Solutions AssociateNOCTI: IT Workforce Ready CredentialCertifications in HTML, CSS, or JavaScript | Critical thinking and problem solving skills are paramount. Communication skills are important; be able to convey technical ideas to a non-technical audience. |

**Opportunities to learn more about Computer Science in Rhode Island:**

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| --- | --- |
| **Resource** | **Description** |
| CS4RI Website | https://www.cs4ri.org/ |
| Teals Student Opportunity Page | https://www.tealsk12.org/students/ |
| URI CS Summer Camp | https://www.cs.uri.edu/cs-summer-camp/ |

