Richmond, BC
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Edward Liang
Third-Year Computer Science Student

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Technical Skills

- **Languages**
  - JavaScript, Java, HTML, CSS, Node.js, React.js, Express.js, R, C++, Python, SQL
- **Tools**
  - Eclipse, Visual Studio, Visual Studio Code, IntelliJ, Ambari, AWS, Postman, Vim, Linux, Git, Perforce

Employment

Vancouver, BC	**Pacific Laboratory for Artificial Intelligence** **Software Developer**	**May 2023 – Sep 2023**

- Led the design of a serverless infrastructure in AWS, achieving a $70,000 or 76% reduction in expenses.
- Gained hands-on experience writing code with Python's boto3 to develop lambda functions, synchronizing AWS services like Route53, DynamoDB, EC2, and S3 to increase efficiency by 80%.
- Worked with modern technologies like React and CloudFront to develop a form website as well as a virtual sandbox, enhancing user experience with EC2 instances for gameplay.
- Collaborated with top machine learning researchers to optimize data collection processes for performance and scalability.
- Introduced TLS and HTTPS certification for web browsers as well as lockdown using IP Tables and HTTP proxies, demonstrating a strong understanding of network security principles.

Vancouver, BC	**insightsoftware** **Junior Software Developer**	**Sep 2022 – Apr 2023**

- Developed expertise in Big Data technologies such as Apache Hadoop, Hive, Impala, and Spark.
- Contributed to the development of ODBC and JDBC SQL drivers using C++ and Java for multiple world-renowned tech giants.
- Created connectors that streamlined the linking of drivers with third-party apps like Tableau, resulting in an 83% increase in user productivity.
- Versatile in working with UNIX/Linux, and Windows platforms, flexible with various operating systems.
- Knowledgeable in various authentication mechanisms including SAML, SSL, Kerberos, and other industry-standard protocols, enabling secure connectivity for diverse systems and applications.

Technical Projects

- **Encore** (Personal)   **Jan 2022**
  - Worked with 3 other teammates to create a music guessing game website for nwHacks 2022.
  - Implemented ExpressJS to connect the Node.js backend with the vanilla JS frontend, illustrating capability in server-side programming and front-end development.
  - Leveraged calls to the Spotify API to retrieve data and utilized audio files to link with Wave.js to create an engaging waveform in the background for a better user experience.
  - Tech: **Node.js, JavaScript, HTML, CSS, Express.js**
- **AlgoVisuals** (Personal)   **Oct 2021 - Dec 2021**
  - Using Python and Tkinter for the user interface, developed an all-inclusive algorithm visualizer tool for sorting and pathfinding algorithms.
  - Supports common sorts like merge sort, bubble sort, and also common pathfinding algorithms like Breadth-first Search and Depth-First Search.
  - Tech: **Python**

Education

Vancouver, BC	**University of British Columbia**	**Sep 2020 - Present**

- BSc in Computer Science. GPA: 3.9