Bryan Rachmat

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EDUCATION

- **Trinity Western University** — Langley, BC
  Bachelor of Science in Computer Science; Mathematics Minor GPA: 3.67 — *Jan. 2020 – Dec. 2024*

NANO-DEGREES

- **Udacity** — Online
  Software Development — *2024*
  - **Full Stack JavaScript Developer**: Focused on JavaScript frameworks such as Angular, Node, React, and Express, along with PostgreSQL, Jasmine, AWS Elastic Beanstalk, and CircleCI.
- **Udemy** — Online
  Programming — *2022*
  - **Complete Web Development**: Learned HTML, CSS, JavaScript, Tailwind CSS, PHP, SQL, and Ajax.
  - **Complete Python Bootcamp**: Learned Python, and OOP.

EXPERIENCE

- **Trinity Western University** — Langley, BC, Canada
  Teaching Assistant — *Jan 2023 - Present*
  - **Educational Support**: Provided targeted assistance to students requiring help with Java and OOP, using a variety of teaching methods tailored to individual learning styles.
  - **Assignment Grading**: Evaluated student assignments to ensure a fair and consistent assessment process, with detailed analysis of code quality, functionality, and adherence to best practices.
  - **Feedback Provision**: Offered constructive feedback to students, highlighting strengths and areas for improvement to guide them towards higher proficiency in coding skills.
- **Trinity Western University** — Langley, BC, Canada
  Research Assistant — *May 2023 - Aug 2023*
  - **Artificial Intelligence Research**: Specialized in AI-driven 3D animation. Published "MARTA: Modern Automatic Renderings from Text to Animation" in IEEE UEMCON 2023.
  - **Algorithm Development**: Developed algorithms for translating natural language into 3D animations.
  - **Technology Integration**: Implemented machine learning models, Python, Blender, CUDA, NLP, and Stable Diffusion in creating automated 3D animations from text.

PROJECTS

- **Angular Online Store**: Developed a comprehensive e-commerce application with Angular. Features product listings, cart functionality, and checkout processes.
- **ImageAPI**: Built a Node.js and Express service for dynamic image resizing, with a suite of endpoints for user-defined dimensions.
- **Elderly Cognitive Game (ESP32)**: Created a cognitive game for the elderly using ESP32 and MicroPython.
- **Photography Website**: Designed and developed an interactive website for showcasing photographic work, using HTML, CSS, and JavaScript.
- **Storefront Backend**: Engineered a robust backend for e-commerce operations using Express and PostgreSQL with RESTful APIs.
- **Udagram Deployment**: Implemented a scalable infrastructure for deploying a social media application on AWS, with automated CI/CD via CircleCI.

PROGRAMMING SKILLS

- **Languages**: Python, HTML, CSS, JavaScript, SQL, Java.

  Technologies: AWS, Node.js, Express, Angular, React.