JUSTIN PENG

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EDUCATION

National University of Singapore   **Aug 2021 - Jul 2024 (Expected)**
Bachelor of Computing (Honours) in Computer Science
- **Cumulative Average Point: 4.82/5.0**

TECHNICAL SKILLS

- **Programming Languages:** Python | Java | JavaScript
- **Front-End:** Next.js | React.js | Vercel | TailwindCSS | HTML5 | CSS3 | Bootstrap 4 | jQuery
- **Back-End:** Django | Node.js | AWS EC2 | AWS Lambda
- **Database/Storage:** PostgreSQL | MongoDB | AWS DynamoDB | AWS Appsync | GraphQL | AWS S3
- **DevOps:** Git | Github Actions | Sourcetree | Terraform | Jest | Cypress | Postman | Docker

WORK EXPERIENCE

INTERSEED.CO *Front End Engineer* (*https://app.interseed.co/*)   **Mar 2022 - Present**
- Cultivated a community of 182 members and 34 organisations interested in sustainability on a web application
- Solved users' pain points by implementing a mobile-responsive community map with search and 4 filter components
- **Tech Used:** MongoDB, Express.js, React.js, Node.js, Redux, GitHub Actions

SG CODE CAMPUS

Course Instructor/Curriculum Developer   **May 2021 - Present**
- Coordinated and conducted the inaugural AWS–IMDA Data Science Bootcamp and Accelerator Programme for >200 secondary school students across Singapore to learn about, train, and compete with deep learning models
- Coached 27 adult participants to achieve SMU's Advanced Diploma in Python Programming and Applied Data Analytics certification
- Devised presentation materials and complementary projects for various programmes involving deep reinforcement learning, hyper-parameter tuning, OOP, web development, Swift, and Python (partnered with AWS, IMDA, Apple, and Radin Mas Primary School)

Deep Learning Intern   **Apr 2021 - Jul 2021**
- Conducted hyperparameter optimisation using grid search over soft-actor critic and proximal policy optimisation algorithms
- Compiled a comprehensive guide on AWS DeepRacer and deep reinforcement learning concepts for the AWS IMDA Bootcamp
- Developed hackathon preparation guide by training models on the AWS DeepLens with AWS SageMaker, Lambda, and Rekognition

NESTED TECHNOLOGIES *Lead Software Development Intern*   **Nov 2020 - Mar 2021**
- Oversaw 3 full-stack web application projects deployed on AWS and a software development team of 10
- Implemented automation & machine learning software for client search, automated emailing systems, and floor plan analysis
- Designed front-end UI/UX and beautified our web applications with dark mode, modals, and animations
- **Tech Used:** Python, Django, HTML5, CSS3, JavaScript, Bootstrap 4, jQuery, AWS, Docker, Postman, PayPal SDK, GitHub Actions

PROJECTS

THESOCIALPITSTOP *Full Stack Engineer* (*https://thesocialpitstop.vercel.app*; report; poster; video)   **May 2022 - Present**
- Designed and built a serverless web application in 3 months with a fellow student to connect businesses and social enterprises for corporate social responsibility projects; awarded Orbital - Apollo 11 (Advanced) certification
- **Tech Used:** Next.js, AWS, Terraform, GraphQL, Auth0, Algolia, Jest, Cypress, GitHub Actions, Vercel

EXTRA-CURRICULAR ACTIVITIES

NUS FINTECH SOCIETY *Tech Lead (Software Development)*   **Aug 2022 - Present**
- Managed a team of 4 software engineers to revamp the NUS Fintech Society website using Next.js

TEMBUSU STUDENT DEVELOPER CLUB *Co-Director*   **Aug 2022 - Present**
- Handled the development of software applications to handle supper, laundry, and angel-mortal games within Tembusu College

TEMBUSU TENNIS TEAM *Co-Captain*   **Aug 2022 - Present**
- Coached beginners weekly to pick up tennis and play matches; organised team-building sessions at external clay courts

NUS STUDENTS AGAINST VIOLATION OF THE EARTH *Green Canteens Ambassador*   **Aug 2021 - July 2022**
- Oversaw the food waste segregation across 10 NUS canteens, significantly increasing the co-digestion of food waste into energy

ADDITIONAL INFORMATION

- **Courses/Certifications:**
  - **In Progress:** AWS Certified Developer - Associate | DeepLearning.AI Deep Learning Specialisation
  - **Completed:** Orbital - Apollo 11 (Advanced) | Stanford University Machine Learning | Johns Hopkins University HTML, CSS, and Javascript for Web Developers | Smartcademy Data Analytics
- **Hobbies/Interests:** Dance (Hip-Hop, K-Pop), Tennis, Tech for Sustainable Development, FinTech