

# Nick Pellegrin

## Computer Engineering and Software Development

Newbury Park, CA 91320 | (805) 410-2034 | [nicholaspellegrin@yahoo.com](mailto:nicholaspellegrin@yahoo.com) | [www.linkedin.com/in/nick-pellegrin](http://www.linkedin.com/in/nick-pellegrin)

---

### PROFESSIONAL EXPERIENCE

#### **Illuminate — Associate Software Engineer**

**July 2019 – July 2022**

- Conducted research and development of authentication processes for bare-metal services, web design for frontend user interfaces, and backend server orchestration with SQL databases
- Spearheaded data collection for AI training sets and achieved 65-86% accuracy across multiple artificial intelligence models for project bid estimation using both traditional and evolutionary models
- Managed office infrastructure, including communicating with contractors, fitting 130+ ethernet cables in the office, and building out hardware for an internal server plant to manage network traffic

#### **CK Technologies Inc. — Electro-Mechanical Manufacturing Assembler**

**June 2018 – August 2018**

- Built 500+ data cables and assembled/soldered circuit boards for aviation flight test equipment
  - Directed stockroom operations including up to 20 incoming/outgoing shipments a day
- 

### EDUCATION

#### **UC Santa Barbara — Computer Engineering Bachelor of Science (B.S)**

**September 2021 – Present**

- Graduating in June 2024 | Comprehensive course load spanning software and hardware | 3.58 GPA
- Took classes in machine learning, embedded systems, data structures, algorithms, and web design
- Member of the UCSB robotics club, contributed to remote sonar mapping of the lagoon

#### **Moorpark Community College**

**September 2019 – June 2021**

- Dean's Honor List for two years in a row | 3.85 GPA
- 

### TECHNICAL SKILLS/AWARDS

- **Languages:** python, C, C++, java, javascript, assembly, and verilog
  - **Frameworks:** GitHub, Flask, React+Material UI, SQL, Docker, Kubernetes, and Tensorflow
  - **Eagle Scout with Silver Palm:** 36 total merit badges | conducted Eagle Scout service project
- 

### PERSONAL PROJECTS: <https://github.com/nick-pellegrin>

- **Smart Home Capstone (C/python):** Collaborated in a small team to create a smart home assistant with a mobile app and Firebase cloud backend to support command routing to peripheral devices
  - **Vault Opener (C):** Register level embedded system programming on STM32 Nucleo Board and Arduino with multiple peripherals | project site: <https://sites.google.com/view/vault-door-system/home>
  - **Email Spam Detection (python):** Keras network trained to detect spam email addresses with roughly 88% accuracy, used by the Gaucho Creative Marketing Group to weed out spam survey submissions
  - **Image Classifier (python):** Tensorflow convolutional network with preprocessing layers trained to label images from the MNIST fashion dataset, placed 3rd in class competition with accuracy of 92.18%
  - **Multi Paxos (python):** Simulated a 6 node distributed system using the multi-paxos framework
  - **Happy Cows (Javascript):** Lead a small team to implement 30+ tickets on full-stack legacy code
  - **Portfolio Website (JavaScript/CSS):** React framework using Material UI for website components
- 

### INTERESTS:

Astronomy | Surfing | Spiking Neural Networks | Fishing | Pokemon | Weightlifting | Water Polo | Yugioh